QBox HD

USER GUIDE

Online version

rev.02

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1 Before initial operation on the receiver

1.1 Safety instructions

1.1.1 General instructions

Please read the safety instructions completely and carefully, before using the QBox. The Manufacturer takes no responsibility for damages as a result of incorrect handling of the QBox.

- The safety marking is located on the exterior of the bottom of the apparatus.
- The mains plug shall be installed near the equipment and shall remain readily operable.
- Allow enough space around the QBox for sufficient ventilation.
- Do not cover the top of the QBox and allow enough space to other devices. The louvers of the devices must be free at all times to allow sufficient heat transfer from inside the device.
- Never put vases or any other liquid filled containers on top of the device. Do not expose the device to dripping or splashing liquids.
- Do not place open flame sources, such as lit candles, on top of the device.
- The device may only be operated in moderate climate.
- Do not remove the cover. Risk of electric shock. If it is necessary to open the device please contact a trained professional.
- Do not put any metal things into the slots or ventilation openings.
- The installation of a hard disk is only allowed by skilled personal or your local dealer.

ATTENTION! Modifications and changes to the QBox lead to loss of warranty if not performed and documented by skilled operator.

ATTENTION! We recommend the installation of a hard disk by your local dealer. Unskilled installation of a hard disk leads to loss of warranty.

1.1.2 Shut down

- In case your QBox is not in use for a long period of time disconnect the power plug from the power outlet.
- During thunder storm the unit should also be physically disconnected from the power outlet.

1.1.3 Additional safety instructions:

- (Dis-)Connecting to a LNB: Turn the QBox off before you connect or disconnect a cable coming from or going to a LNB
- Connecting to a TV: Before connecting or disconnecting your QBox to/from a TV please turn it off.
- In case you notice any damage to the power cord or power plug immediately disconnect the device from the power outlet.
- In case the device was exposed to humidity immediately disconnect the device from the power outlet.
- In case you notice any serious damage to the outer shell of the device immediately disconnect the device from the power outlet.
- Do not expose the QBox to direct sunlight, lightning or rain.
- Grounding: The LNB cable must be grounded. The grounding system must meet SABS 061 requirements.
- Cleaning: Disconnect the mains power cord before cleaning the cover. Use a slightly damp cloth without cleaning agents.
- Connect the QBox only to suitable sockets. Do not allow overloads to occur.
- Please be careful that the batteries of your remote control are not exposed to heat, since they might explode.

1.1.4 Disposal instructions

The packaging of the QBox only consists of reusable materials. Please recycle if possible.
This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.
Please note that empty batteries and electric waste is not to be put into the regular garbage.

1.1.5 CE Certification

Duolabs S.p.A. declares that this equipment complies to essential requisites and other relevant provisions of Directives 2006/95/CE (“low voltage”) e 89/336/CE (“electromagnetic compatibility”).

For Wi-Fi sold models.

Duolabs S.p.A. Declares that this equipment complies to essential requisites and other relevant provisions of Directive 1999/5/CE (“ Radio and Telecommunications Terminal Equipments”). The declaration of conformity may be required to Duolabs S.p.A., via Baggi 28, 36061 Bassano del Grappa (VI).
The use of the radio interface may be subjected to local restriction of use. Customers are responsible for verifying approval for use in their individual countries. Please consult your local spectrum authority.

http://ec.europa.eu/enterprise/rtte/spectr.htm

1.2 Packaging contents

Please check the completeness of the box's contents.

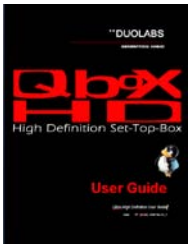
What's included on the package:

1 x QBox High Definition

Please check the Tuner configuration from the carton box

1 x Remote Controller

1 x Battery Pack (2x AAA)



1 x User Manual

Optional <u>not included</u> on the standard configuration:

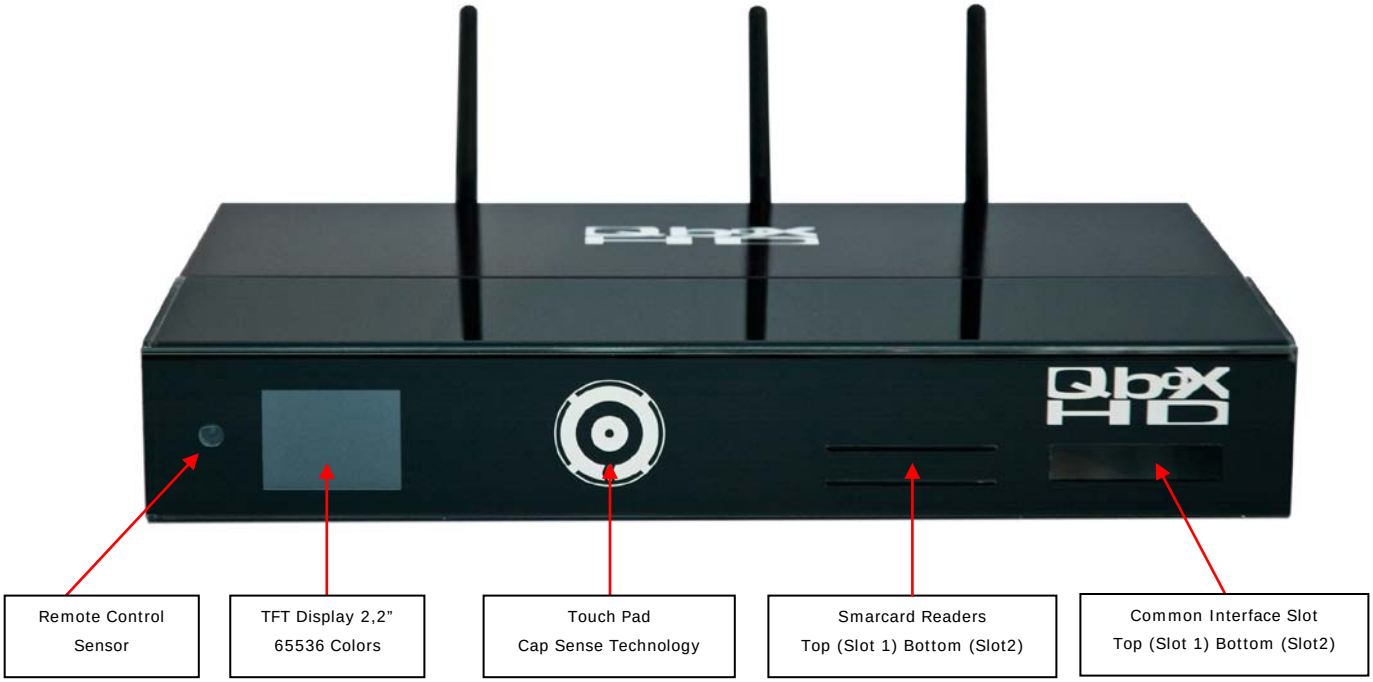
Wi-Fi 802.1n module for WLAN connection
Inc. Wi-Fi antennas

Please check the configuration from the carton box if included

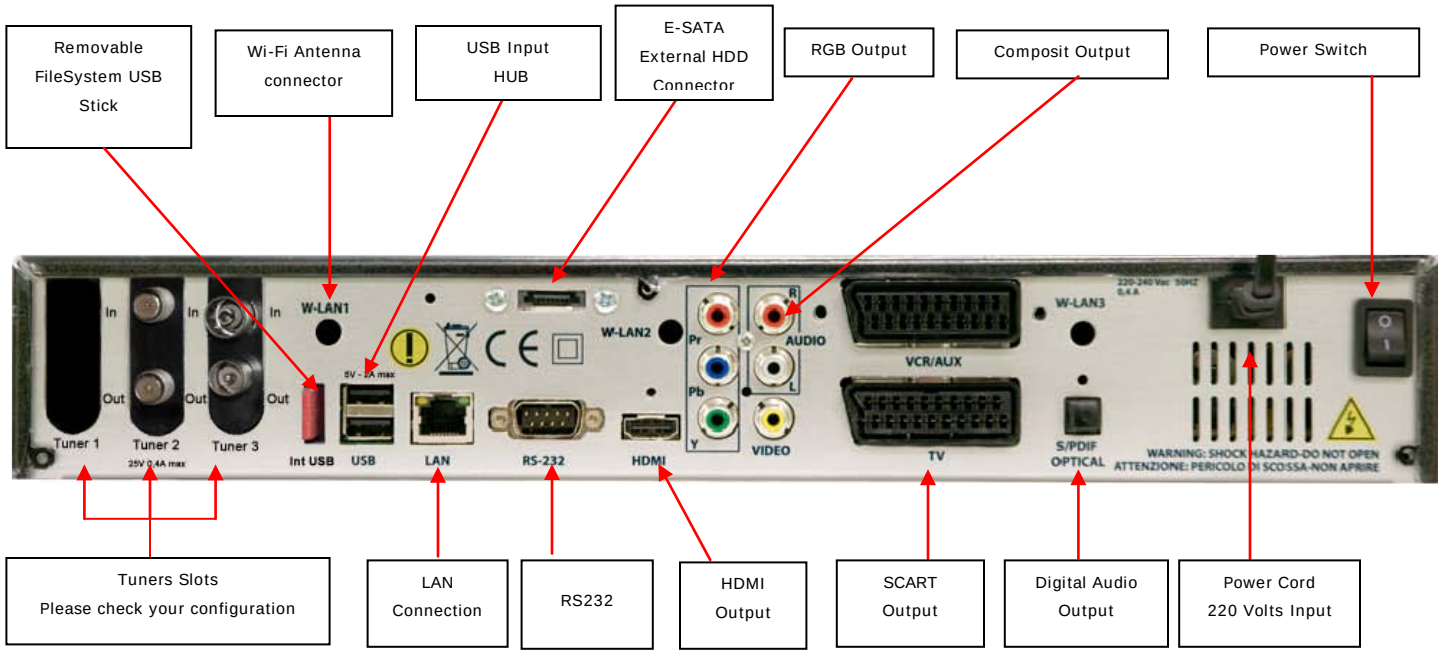
for mounting instructions please follow APPENDIX A

1.3 Views

1.3.1 Font View


Remote Control Sensor
TFT Display 2,2" 65536 Colors
Touch Pad Cap Sense Technology
Smarcard Readers Top (Slot 1) Bottom (Slot2)
Common Interface Slot Top (Slot 1) Bottom (Slot2)

1.3.2 Rear View



1.4 Explanation Front Panel

Common Interface Slot

Plug in here any Common Interface Module of your choice.

Smartcard Readers

Insert your Conax, Dreamcrypt or DGCrypt Smartcard with the golden chip facing down and forward into one of the two Smartcard reader slots.

Remote control sensor

The remote control sensor receives the infrared signals of the Remote Control.

Channel up/down

Using the channel-up and –down buttons you can switch the channels directly on your QBox.

LC-Display

The graphical LC-Display with 65536 Colors shows all major information for the selected service.

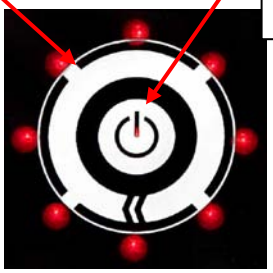
> ***Note!***
> If LCD display when turning on the QBox is flashing two times in RED color it means that there is a problem with the USB Pen which is not inserted correctly or the content in it is not correct. For this reason you need to open the receiver and check USB Pen connection.

Touch PAD – SenseWheel *(Please see 10.6)*

Touch PAD is using the cap-sense technology thus is activating its functions by simply getting closer to it. Functions are the same as the Remote Controller central PAD but may be changed without prior communication. The illuminated backlights colors can be changed from the OSD.

Position(s) are illuminated by the colored dots

ON/OFF Button – **Stand By Mode**
By holding this position for 5 seconds the receiver will automatically go in Stand-By Mode. For complete Shut Down please Press the ON/OFF Switch on the Rear side.



1.5 Explanation Rear Panel

Power Switch

The main power switch completely cuts power from your QBox.

Power Cord

Plug the power cable into the main power socket. You must not connect the power plug to anything other than a socket that supplies 110V/60Hz or 230V/50Hz.

E-SATA Connector

This is the connector to connect an external Hard Disk E-SATA. E-SATA HardDisk needs to be externally powered.

Digital Audio Output *(SPDIF)*

You can connect your QBox with an optical (Toslink) cable to your HiFi-Amplifier or DSP. The AC3 signal is also available at this port in case the selected channel transmits Dolby Digital signals.

Scart Output (TV and VCR)

Connect your TV, projector or beamer to your QBox using a Scart cable (TV).
Connect your VCR or DVD player to your QBox using a Scart cable (on VCR). Remember, the VCR Scart is not designed to record a video signal from the VCR or DVD player.
Please read carefully point 3.1 when you first startup your QBox.

Composite Output

Connect your QBox with a RCA/Cinch cable (red and white) to your HiFi-Amplifier (e.g. AUX In or Tape In ports). You can optionally connect your QBox to a TV using a RCA/Chinch cable.

RBG Output

Connect your QBox with a RCA/Cinch cable (red, blue and green) to your TV, projector or beamer on RGB (component) input. This is just a video Output.

HDMI

Connect your QBox with a HDMI cable (non included) to your TV HDMI input. HDMI is the highest performance signal (video and audio) transmission output for your QBox High Definition.
Please read carefully point 3.1 when you first startup your QBox.

RS232

You can connect your QBox The Serial Port is used to update the operating system. Please connect a serial null modem cable here.

LAN Connection *(Ethernet 10/100Mbit, RJ45)*

The Communication Port is an Ethernet port. It is used to communicate with your QBox via HTTP, FTP, NFS, Telnet and Samba to access your recorded movies, to upload channel lists, etc. This port is also used to update the operating system of your QBox. Please use a regular patch cable or cross cable to connect your QBox to your LAN. It is recommended to use a LAN switch, Router or Access point to maintain a stable connection especially for LAN update procedure.

USB Input HUB *(USB 2.0)*

The USB Port is designed for devices that support the USB 2.0. The amount of supported USB devices depends on the installed image (Software) and is still under development.
USB Port can be used for P.V.R. (Personal Video Recording) functions by connecting a USB Pens or USB Drives. USB Port can be used for receiver update *(see chapter 12)*

Removable Filesystem USB Pen

The FileSsstem is hosted in an external USB Pen of 1GB slim format which can be easily removed from the back side of the receiver and used in a PC to download the new firmware inside the receiver. The USB Pen is used instead of internal memory so that the QBox can have larger room to host more files, videos etc with NO space limitation.
It is possible also to use a different USB Pen simply removing the internal USB and installing the entire filesystem into another USB Pen. QBox will boot from the USB where the filesystem is present.

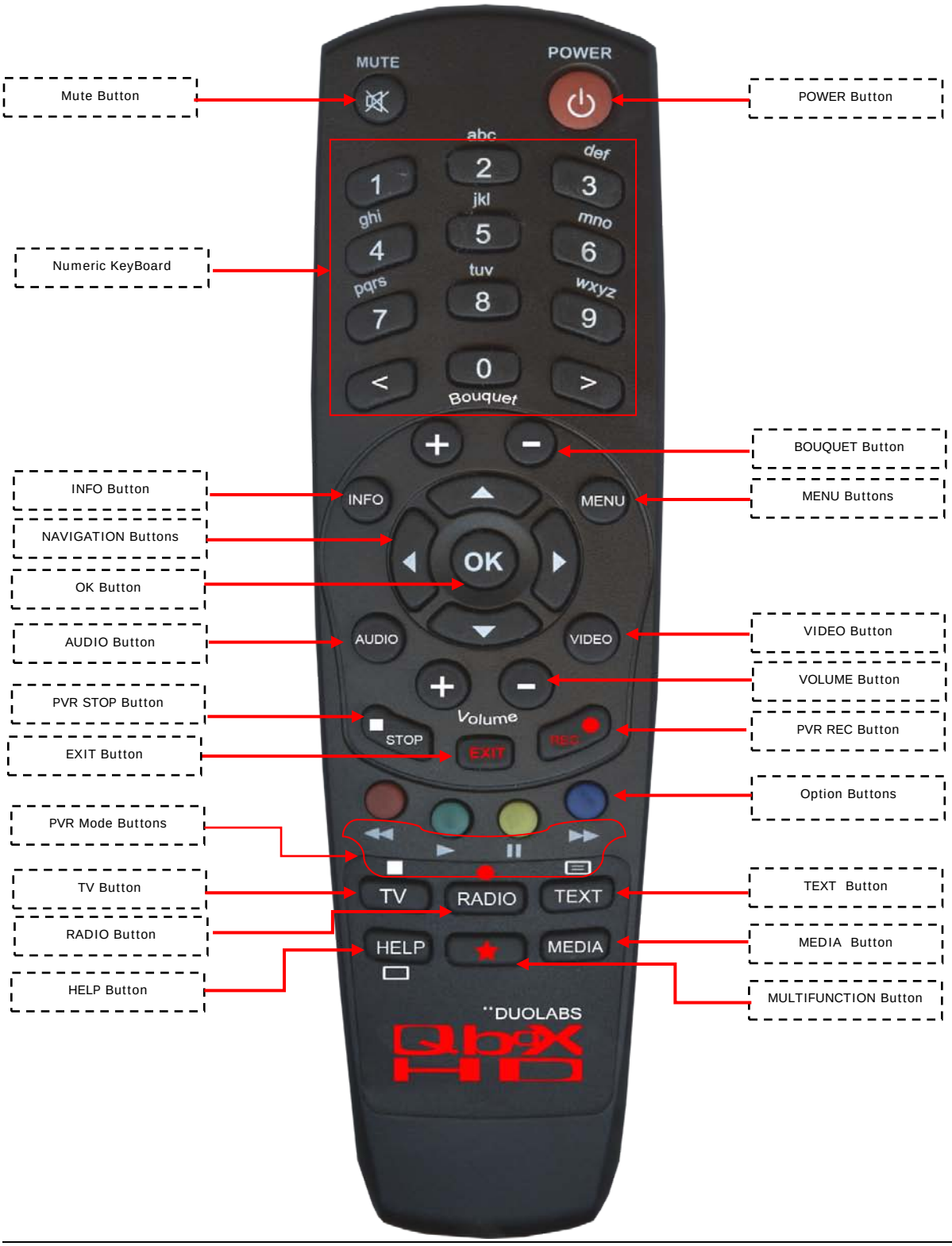
LNB 1, 2, 3 – Tuner Slots

QBox is a multi-tuner Set Top Box. You can Plug and Play DVB-T, DVB-S2, DVB-C tuners. Tuners must be compatible with QBox tuners. Please do not mount any tuner if you are not sure if the tuner you are using is compatible with QBox Tuners.
QBox tuners are available by QBox resellers or directly by Duolabs Spa.

Wi-Fi Antenna *(optional)*

QBox is capable to support WLAN connection with using the WLAN module optionally available (please check your sales configuration on the carton box if available). Three Wi-Fi antennas are needed to get the maximum performance for the WLAN module which operates following the 802.11n Standard. The WLAN operates in a totally transparent way like LAN connection *(see above)* including all its functionalities *(see chapter 10.8)*

1.6 Remote Control



Important notes about operation

All functions of the QBox can be controlled via OSD-Menu (On-Screen-Display). This makes the handling of the QBox very easy for you. All options are indicated by four colored dots or beams (red, green, yellow, blue) in the OSD-Menu and can be started with the **Option Buttons** on the Remote Control.

Depending on the chosen Menu, these options do vary.

The **Options Buttons** of your remote control have multiple functions. You will notice control symbols below the four colored **Options Buttons**, the **TV**- and the **RADIO Button**.
In PVR Mode these buttons are used to control the digital recording according to their symbols.

Pressing the VIDEO-Button on your remote control will activate the PVR-Mode.
The Info bar will also indicate this. It changes from showing the channel information to showing the control symbols for the PVR-Mode.

In general the menus are controlled using the **Navigation-Buttons** on your remote control.

POWER Button	The Power-Button switches your QBox on and off.
MUTE Button	Pressing the MUTE-Button mutes the Volume. A crossed speaker symbol will appear on the TV screen. Pressing it again or pressing one of the Volume +/- Buttons brings back the audio. The Mute-Button deletes a character during text input.
Numeric KeyBoard	Enter a service number to directly access the option by using the Numeric Keypad. The service numbers are on the left side of the service list. The Numeric Keypad can also be used to enter the Teletext page number.
EXIT Button	All Menus and Service lists are closed with the EXIT-Button.
VOLUME Buttons	The Volume +/- Buttons control the volume of the audio. Pressing + will make turn it up and pressing - will turn it down.
INFO Button	If no OSD menu is visible on the screen and you are in TV or RADIO-Mode, pressing the INFO-Button will reveal the EPG information of the chose channel if it is available.
NAVIGATION Buttons	In general the menus are controlled using the Navigation-Buttons on your remote control. To get into a submenu you have to press the OK-Button.
AUDIO Button	By pressing the AUDIO-Button you can choose the different audio tracks offered by the station.
PVR Mode Buttons	All possible options are shown by the four colored dots/blocks (red, green, yellow, blue) and can be activated by the Options-Buttons. These buttons have multiple functions and are also used to control the PVR-Mode. Depending on the menu you currently are in the options will change and will be named differently.
TV Button	Pressing the TV-Button activates the TV-Mode. In PVR-Mode this button is mapped with the stop function as indicated by the small square underneath it.
PVR STOP Button	Pressing the PVR STOP Button the PVR will stop immediately from recording. Check chapter 7.3.2
PVR REC Button	Pressing the PVR START Button the PVR will start immediately recording in “Add recording (indefinitely)” mode. Check chapter 7.3.1
BOUQUET Buttons	Pressing the Bouquet +/- Buttons will jump back and forth between the bouquets.
MENU Button	If you are in TV- or RADIO-Mode, pressing this button will bring up the OSD main menu. You can switch to the needed option by pressing the Navigation-Buttons up or down. If you are in the service list, pressing the MENU-Button brings up the service menu.
OK Button	By pressing the OK-Button you confirm a selection in the menu or service list navigation. If no OSD menu is present on your screen, the Infobar is shown once you press the OK Button.
RADIO Button	Pressing the RADIO-Button activates the RADIO-Mode.
VIDEO Button	Pressing the VIDEO-Button activates the PVR-Mode. The Infobar will show the control symbols. You can instantly start recording by pressing the red Options-Button on your remote control.
Option Buttons	All possible options are shown by the four colored dots/blocks (red, green, yellow, blue) and can be activated by the Options-Buttons. These buttons have multiple functions and are also used to control the PVR-Mode. Depending on the menu you currently are in the options will change and will be named differently.
HELP Button	Pressing the HELP-Button activates the Help menu.
TEXT Button	The TEXT-Button activates the Teletext.
MULTIFUNCTION Button	The MULTIFUNCTION button in a user customizable button which gives direct access to a user pre-defined function. Function can be defined via plug-in by the user.
MEDIA Button	The MEDIA Button gives the user the direct access to the media functions control panel.

2 Installation

2.1 Check for updates.

When the Set Top Box is received it is possible that many new features are already been implemented in the meanwhile. A firmware update is important to be made.
Before starting the receiver please check on the official web site www.qboxhd.com or www.duolabs.com if there is any firmware update that may have fixed some previous problems.

Check on the update section 12 of this manual how to perform the update on your receiver.

2.2 Before turning the QBox HD on.

Please remove the protection plastic from all the box and clean the front and rear panel carefully before turning the receiver on.

IMPORTANT NOTE!

To clean the front panel plastic after removing the protection film please use small quantity of **water** mixed with **glass cleaning products**.

DO NOT USE:

- Acetone
- Any Chemical solvent.
- Alcohol based products.
- Trichloroethylene is a chlorinated hydrocarbon known as TCE, Trike, Tricky and Tri...

The usage of the above products may cause opacity effects on the front panel plastic.

NO WARRANTY WILL COVER SUCH KIND OF DAMAGE!!

2.3 Turning the device on

- Place the batteries inside the battery compartment of the remote control keeping in mind the right polarity.
- Before using the QBox, please read the safety instructions (See chapter 1.1 Safety instructions)
- Connect the LNB or antenna with a coaxial cable to LNB in or Antenna in at your QBox. See chapter 1.3.2 Explanation rear panel.
- Connect the QBox to your TV using a HDMI or Scart-cable.
  Please mind carefully chapter 3.1 before connecting HDMI or SCART at the first use of QBox
- Plug in the power cable into the QBox and then into a 110V/60Hz or 230V/50Hz power socket.
- If you are using a switchable power socket please shutdown your QBox into deep standby before switching off the power socket. See chapter 4.1 Turning your QBox on and off
- If you switch on your QBox for the first time, you will see the setup wizard. The setup wizard will guide you through the first time installation. Follow the instructions on the screen. See chapter 3. Start wizard.

3 Start wizard

The start wizard helps you with the basic setup of your QBox.

3.1 Video output selection

READ CAREFULLY!

At the first usage of your QBox you have to set up the video/audio output for your receiver.

There are two possible options:

1. **Connection using the HDMI.**
    a. First of all turn on your TV Set and go to HDMI input. Some TV Set will allow the user to select the HDMI input right after the detection of the receiver's HDMI signal.
    b. During the startup the receiver will negotiate with the TV Set the video output preferences and will set itself at the maximum possible resolution.

2. **Connection using other outputs different than HDMI.**
    If there is not HDMI connected the receiver will automatically set as output the SCART or RGB. In this case nothing must be done.

3.2 Language selection

Select your desired and language with the N**avigation-Buttons up** and **down**. Press the **OK-Button** to activate.

Welcome.
This start wizard will guide you through the basic setup of your QBox
Press the OK button on your remote control to move to the next step.
English

The start wizard takes you through the basic setup of your QBox.

Press the **OK-Button** on your remote control to get to the next step.

Use the up/down keys on your remote control to select an option. After that, press OK.
English
Use wizard to set up basic features
Exit wizard

You will be asked if you want to set the basic settings for your QBox now or if you want to quit the start wizard.

Using the **Navigation-Buttons up** and **down** select your desired option and press the **OK-Button** to activate your selection.

If you choose “User wizard to setup basic features” you will be taken to the menu for the tuner configuration.

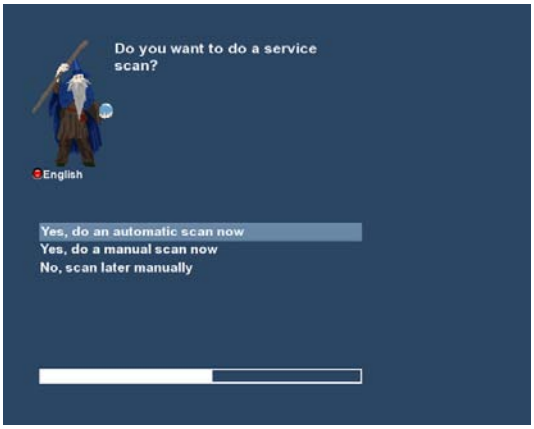
3.3 Tuner setup

Detailed information about the tuner setup can be found in chapter 11.1 ***DVB-S Tuner configuration***

Use the left and right buttons to change an option.
Please set up tuner A
English
Configuration Mode enabled
Used service scan type Frequency bands
Scan band EU VHF I yes
Scan band EU MID yes
Scan band EU VHF III yes
Scan band EU UHF IV yes
Scan band EU UHF V yes
Scan band EU SUPER yes

3.4 Service scan

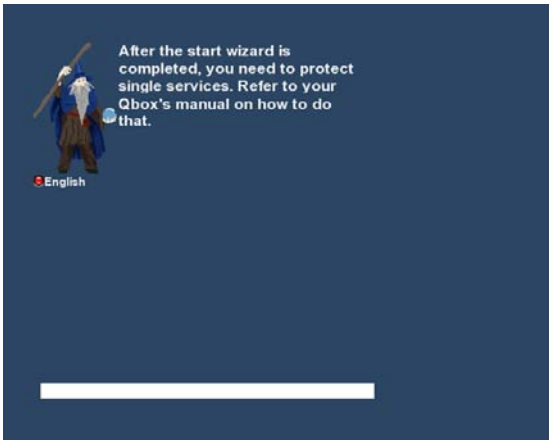
Detailed information about the service scan can be found in chapter 11.3 ***Automatic scan***



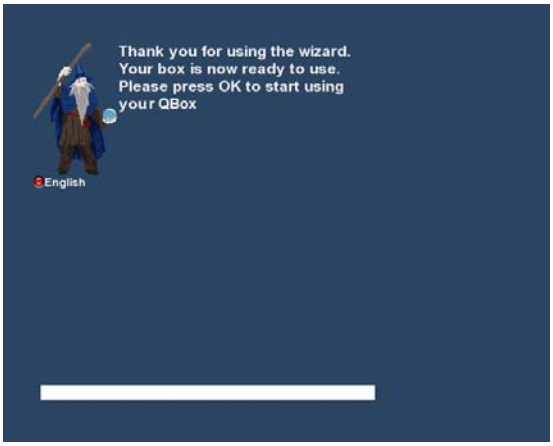
3.5 Parental Control

Refer to section 6.7 Parental Control for further information about this feature

Entering the pin code


After the start wizard is completed, you need to protect single services. Refer to your Qbox's manual on how to do that.
English

Finalizing the basic setup



4 Basic operation

4.1 Turning your QBox on and off

Use the Power-Button to turn your QBox on and off.

To put your QBox into Standby-Mode either press the Power-Button on your remote control or directly on your QBox. The current time will be shown in the QBox's LCD-Display.

Pressing the **Power-Button** for three seconds saves all settings and prepares your QBox for disconnection from power.

Please wait for a note on the screen telling you that you can now disconnect your QBox from power.

Another way to achieve the same thing is to access the main OSD menu and selecting the "Standby/Restart" option. After that select the "Deep Standby" option and press the **OK-Button**.

Alternatively you can press the **Power-Button** on your QBox front panel for 5 seconds. You have to make sure that no OSD menu is visible on the screen before you do so.

This is the Standby / Restart menu. Navigate to the desired option and confirm by pressing the **OK-Button**.

Standby:

Puts your QBox into Standby mode

Restart: Your QBox will be rebooted.

Deep Standby: Saves all settings and enables you to disconnect your QBox from power.

4.2 Service selection

Pressing the **Left/Right-Buttons** on your QBox remote control will take you to the previous or next service.

Pressing the **0** on the **Numeric-Keypad** will enable you to skip back and forth between the two most recently watched services. This feature is quite useful **during commercial breaks since it enables you to watch another channel and quickly check if your movies is back on**.

Using the **Navigation-Buttons left/right** you can switch to the 20 last viewed services.

4.3 Changing channel using the service list

Pressing the **Up/Down-Buttons** on your remote control activates the service list.

Use the **Navigation-Buttons up/down** to select the desired service and press the **OK-Button** to change to the selected service.

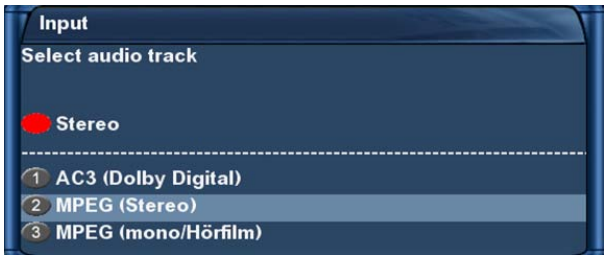
4.4 Controlling the volume

The **Volume +/- Buttons** control the volume of the audio. Pressing **+** will make turn it up and pressing will turn it down.

Pressing the **MUTE-Button** mutes the volume. A crossed speaker symbol will appear on the screen.

4.5 Changing the audio track

Pressing the **AUDIO-Button** in TV or Radio Mode will reveal the “Audio” menu of the selected service.

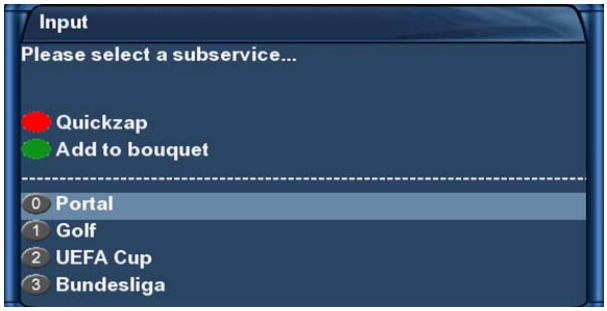


Use the **Navigation-Buttons up** and **down** to move to desired audio track. Press the **OK-Button** to select.

The contents of this menu will vary from service to service.

4.6 Sub Services

The green dot in the Infobar appears if the selected station transmits sub services.



Pressing the **green Options-Button** in TV or Radio mode will reveal the sub services menu.

Use the **Navigation-Buttons up** and **down** to move to one of the sub services. Press the OK-Button to select.

You can now use the **Arrow-Left/Arrow-Right-Buttons** to toggle the subservices.

4.7 TV/Radio switching

Pressing the **RADIO-Button** activates the RADIO-Mode. By pressing the **TV-**or **EXIT-Button** you can quit the RADIO-Mode.

4.8 Teletext

Use the **Text-Button** to enter the Teletext and the **Exit-Button** to leave.

4.9 Subtitles

Press the **Menu-Button** to enter the main menu. Select “Subtitles” and press the **OK-Button**. A list with the available subtitles will show up. Use the **Navigation-Buttons up** and **down** to select a desired subtitle and press the **OK-Button** to activate.

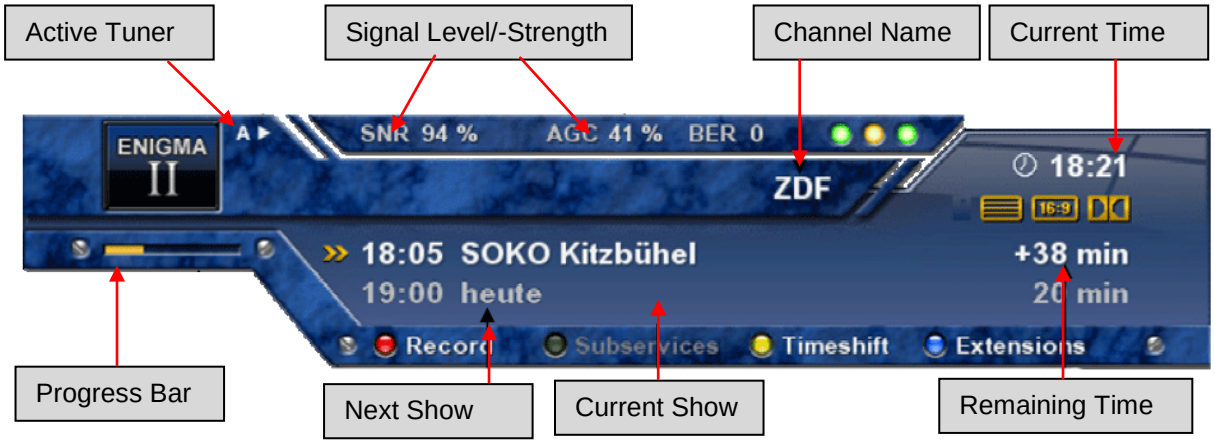
The screenshot on the left shows you an example of how a subtitle looks.

To deactivate subtitles process as described previously, just select deactivate subtitles instead of a subtitle page.

Note: Keep in mind that not every station offers subtitles. If no subtitles are available, the subtitle list will stay empty.

4.10 Infobar

The Infobar appears and disappears by pressing the **OK-Button** once, if no OSD menu is shown on your screen or when you change channels. The Infobar shows all necessary Information about the selected service.



Is highlighted yellow as soon as a show is broadcasted Encrypted.

Is highlighted yellow as soon as a show is broadcasted in Dolby Digital.

Is highlighted yellow as soon as a show is broadcasted in 16:9 aspect ratio.

Is highlighted yellow as soon as a station transmits Teletext information.

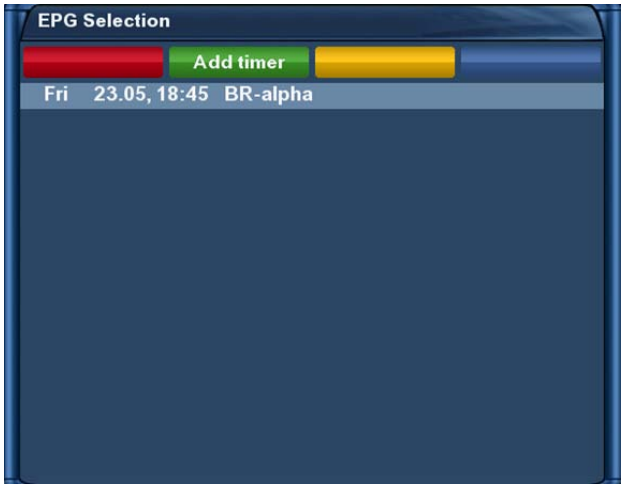
Lights up during the recording process.

5 Electronic Program Guide EPG

By pressing the **INFO-Button** in TV-Mode you are supplied with detailed information about the current show and by pressing the **Right-Button** afterwards about the next show.

Pressing the **yellow Options-Button** activates the “Channel-EPG” (See chapter 5.1) and pressing the **blue Options-Button** activates the “Multi-EPG“ (See chapter 5.2).

The QBox automatically searches for similar broadcasts in the background. If one or more similar broadcasts are found the label “Similar” will appear in the red window.



Pressing the **red Options-Button** opens a listing of similar broadcasts.

By pressing the **green Options-Button** you can set a timer for this rerun.

For additional information about recording by timer please see chapter 7.3.3 Recording by timer.

5.1 Single-EPG

EPG Selection
Add timer
Sort A-Z
Fri 23.05, 18:00 Abendschau
Fri 23.05, 18:45 Rundschau
Fri 23.05, 19:00 Unser Land
Fri 23.05, 19:45 Chiemgauer Volkstheater
Fri 23.05, 21:15 Rundschau-Magazin
Fri 23.05, 21:35 Der Kaiser von Schexing
Fri 23.05, 22:00 Kanal fatal
Fri 23.05, 22:30 Aufgemerkt! Pelzig unterhält sich
Fri 23.05, 23:30 Rundschau-Nacht
Fri 23.05, 23:40 Unter 4 Augen
Sat 24.05, 00:10 Schmidt & Pocher
Sat 24.05, 01:10 Dahoam is Dahoam
Sat 24.05, 01:40 Dahoam is Dahoam
Sat 24.05, 02:10 Dahoam is Dahoam
Sat 24.05, 02:40 Planet Erde

In this view you are supplied with detailed information about the currently selected channel's programming.

By pressing the **yellow Options-Button** your can ether sort the "Single-EPG" alphabetically or by time.

You can also access this view by pressing
1. the **Info-Button** for about 2 seconds
2. the **Navigation-Buttons up/down** to open the services list and then pressing the **Info-Button**.

This way you can very quickly and easily access the

Single-EPG of every service.

5.2 Multi-EPG

Use the **blue** and **yellow Options-Buttons** to switch between the **now**, **next** and **more** views. Pressing the **green Options-Button** will give you the possibility to automatically copy the start and end time of the selected show into a recording timer.

If you have set the “Multi bouquets” option to “yes” (see chapter 10.2) a selection of you bouquets will appear. Select the bouquet for which you want the Multi-EPG view.

This view shows the currently airing shows on the services listed in the left column.

A progress bar showing the progress of the currently airing show is placed next to the service’s name.

Using the **Navigation-Buttons up** and **down** you can select a service, just like in the service list, and change to the selected service by pressing the **red Options-Button.**

EPG Selection
Add timer
Prev
Next
NOW
NEXT
MORE
Today 23.5.
ZDF 19.00 - 19.20 heute
3sat 18.30 - 19.00 nano
Bayerisches FS 18.45 - 19.00 Rundschau
ZDFdokukanal 18.45 - 19.30 Heiße Spur am Monte Verde [
Das Erste 18.55 - 19.20 Berlin, Berlin
BR-alpha 18.45 - 19.00 Rundschau
hr-fernsehen 18.50 - 19.15 hessentipp
SWR Fernsehen 18.45 - 19.45 Landesschau
Phoenix 00.00 - 23.59 Frequenzwechsel! Bitte Info-
ZDFinfokanal 18.30 - 18.40 Leute heute
KiKa 18.40 - 18.50 Golo, der Gartenzwerg
arte 00.00 - 23.59 Frequenzwechsel! Bitte Info-
WDR Köln 18.50 - 19.30 Aktuelle Stunde

General overview of the following programming.

EPG Selection
Add timer
Prev
Next
NOW
NEXT
MORE
Today 23.5.
ZDF 19.25 - 20.15 Forsthaus Falkenau
3sat 19.20 - 20.00 Kulturzeit
Bayerisches FS 19.45 - 21.15 Chiemgauer Volkstheater
ZDFdokukanal 20.15 - 21.00 Die Zeitmacher
Das Erste 19.50 - 19.55 Das Wetter im Ersten
BR-alpha 19.15 - 19.45 Faszination Wissen
hr-fernsehen 19.30 - 19.58 hessenschau
SWR Fernsehen 19.58 - 20.00 Baden-Württemberg Wetter
Phoenix 00.00 - 23.59 Frequenzwechsel! Bitte Info-
ZDFinfokanal 19.00 - 19.20 heute
KiKa 19.00 - 19.25 Tom
arte 00.00 - 23.59 Frequenzwechsel! Bitte Info-
WDR Köln 20.00 - 20.15 Tagesschau

General overview of the upcoming programming for the following days. (Depending on the station up to one week).

5.2.1 Time/Date Input

Press the **Menu-Button** in the Multi-EPG view.

A window will appear where you can enter a time and date.

After you have entered the desired time and date press the **OK-Button** to activate you selection.

EPG Selection
Add timer
Prev
Next
Today 23.5.
ZDF 20.15 - 21.15 Der Alte
3sat 20.15 - 21.00 Der Kreuzritter Richard Löwe
Bayerisches FS 19.45 - 21.15 Chiemgauer Volkstheater
ZDFdokukanal 20.15 - 21.00 Die Zeitmacher
Das Erste 20.15 - 21.45 Das Traumpaar
BR-alpha 20.15 - 21.00 alpha-Forum
hr-fernsehen 20.15 - 21.00 Jugendstil in Hessen
SWR Fernsehen 20.15 - 21.45 Fröhlicher Feierabend
Phoenix Frequenzwechsel! Bitte Info-
ZDFinfokanal 20.15 - 20.30 haus & hof
KiKa 19.25 - 20.55 Zurück nach Gaya - Die helde
arte Frequenzwechsel! Bitte Info-
WDR Köln 20.15 - 21.00 Teufelszeug - Wie der Strom

The Multi-EPG will be displayed according to your set time and date.

As a example we have selected 20:15. All shows starting at / which are already running 20:15 are displayed.

Note: The set time will be saved and used next time when you sort by time and date.

6 Edit the channel list

What is a bouquet? A bouquet can be thought of something like a folder. Every channel equals a page in this folder and the pages are sorted into categories.

This way you can create a bouquet called “Kids”, for example, under which you “file” all children’s stations. Another example would be to create a bouquet called “Sports“ where you put all sports channels. This way you can create several topic related bouquets.

> ***Note!***
> *You can only delete channels in the “favorites view”!*

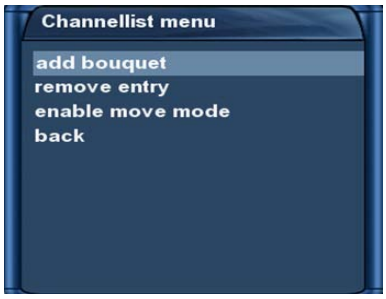
You cannot delete the channels in the “All” view. The use of the “All” view is to keep an internal list of all available stations. If you start a new channel search the result would be saved to the “All” view for example. You favorites bouquet will stay untouched. This way you can easily add newly found channels from the “”All” list to your favorites bouquet. To see how it is done refer to section 6.2.

6.1 Adding a bouquet

To be able to add a bouquet you have to set the "Allow multiple bouquets" option to yes.

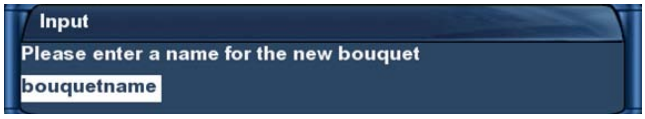
Pressing the **Up/Down-Buttons** on your remote control activates the service list.

Press the **blue Options-Button** to switch to the bouquet view.



By pressing the **Menu-Button** the "Channellist menu" will open up.

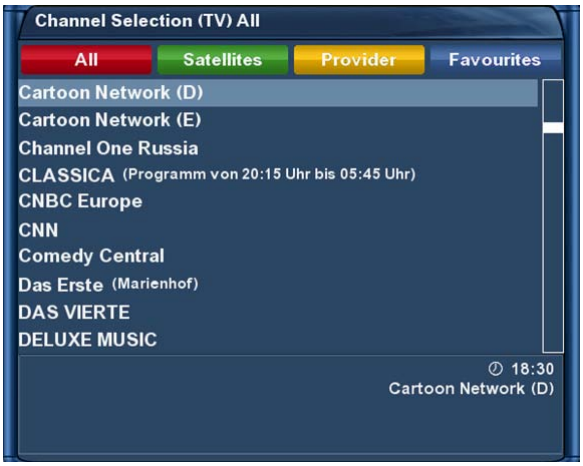
Navigate to the option "add bouquet".



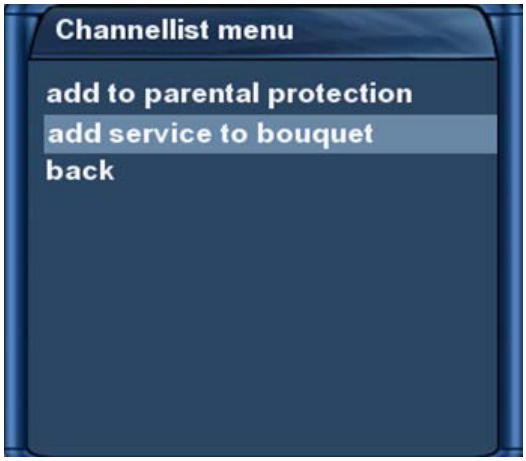
Use the **Numeric-Keypad** on your remote control to enter the name for the new bouquet. The according letters are printed on button.
The **Mute-Button** and the **Arrow-Left/Arrow-Right-Button** deletes a character.
Press the **OK-Button** to add the new bouquet to your
favorites list. You will be taken back to the "Channellist menu".

6.2 Add a service to favorites

If you want to add a service to your **Favorites-view** you can choose from services in the **All-, Satellites-**and **Provider-views**. You can switch views by pressing the **red, green, yellow** and **blue Options-Buttons**. At this point we only describe the process from the **All-Bouquet** since it is the same for the others.



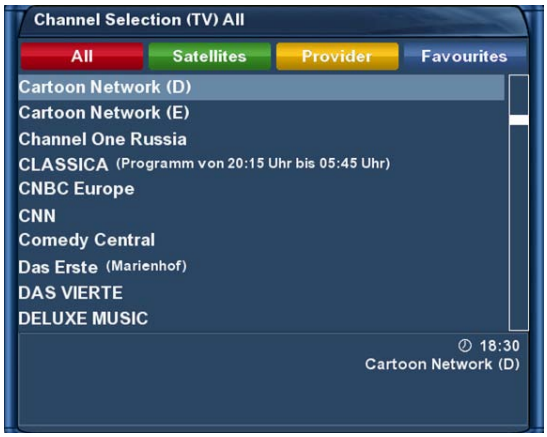
Pressing the **Up/Down-Buttons** on your remote control activates the service list.
Press the **red Options-Button** to change to the All view.
Use the **Navigation-Buttons up/down** to select the desired service and press the **MENU-Button** to open the “Channellist menu”.



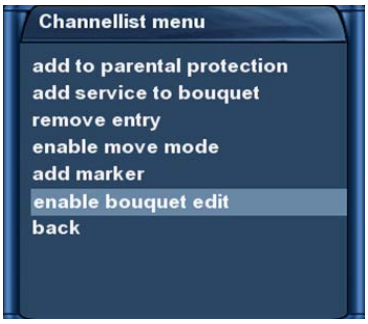
Navigate to the option “add service to bouquet”. If you are using more than one bouquet this option is named “add service to bouquet” instead and you will get a list of your bouquets afterwards. You can choose to which bouquet you want to add the currently selected service. If you are using only one bouquet which is the factory default, the service will be added to you favorites list.

6.3 Adding multiple services to a bouquet

You can select multiple services from the All-view to be added to the currently selected bouquet.

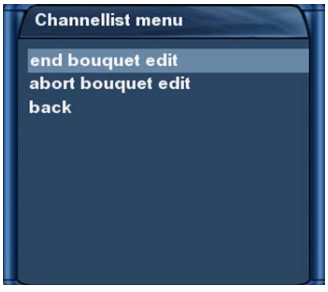


Pressing the **Up/Down-Buttons** on your remote control activates the service list.
Use the **Bouquet +/- Buttons** to switch to the desired bouquet. As an alternative you can press the **blue Options-Button** and select the desired bouquet.
After that select a service and switch to it by pressing the **OK-Button**.



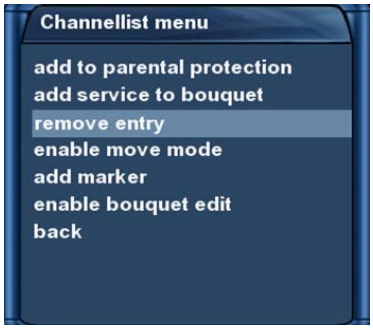
By pressing the **Menu-Button** the "Channellist menu" will open up.
Navigate to the option "enable bouquet edit". The Allview
will open up.

All services that are in the selected bouquet are highlighted red.
Use the **Up/Down-Buttons** to navigate to a desired service and press the **OK-Button** to select. The service will be highlighted red. Using this method you can select additional services that you want to add to the bouquet.
Once you have selected all services that you want to add, press the **Menu-Button**. The "Channellist menu" will open up.

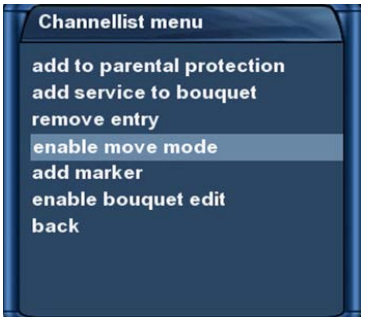


Choose the "End bouquet edit" option. All highlighted services will now be added to the bouquet that you selected in the beginning.
If you are only using one bouquet, which is the default setting, the selected services will be added to you favorites list.

6.4 Remove a service from favorites



Pressing the **Up/Down-Buttons** on your remote control activates the service list.
Use the **Navigation-Buttons up/down** to select the desired service and press the **MENU-Button** to open the “Channellist menu”.



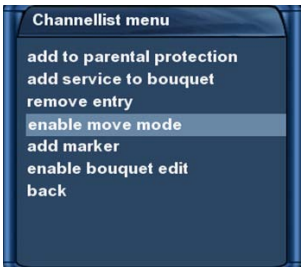
Navigate to the option “remove service”.
The selected service will be deleted from your favorites list.

6.5 Moving a service to favorites

Channel Selection (TV) Bouquets/alle
All
Satellites
Provider
Favourites
107 ZDF (SOKO Kitzbühel)
108 3sat (ARD-exclusiv)
109 Bayerisches FS (Abendschau)
110 ZDFdokukanal (Ruhrpott-Schnauzen (13))
111 Das Erste (Marienhof)
112 BR-alpha (Straßennamen)
113 hr-fernsehen (Brisant)
114 SWR Fernsehen BW (Essen und Trinken)
115 Phoenix (Frequenzwechsel! Bitte Info-Taste betätigen.)
116 ZDFinfokanal (hallo deutschland)
SOKO Kitzbühel
18:05 - 19:00
18:28
ZDF
Nach seinem Dienstantritt bei der SOKO Kitzbühel hat Klaus Lechner gemeinsam mit Karin Kofler ein Verbrechen zu klären, das im Milieu eines prominenten Scheidungsanwaltes angesiedelt ist.

Pressing the **Up/Down-Buttons** on your remote control activates the service list.

Use the **Navigation-Buttons up/down** to select the desired service and press the **MENU-Button** to open the “Channellist menu”.



Navigate to the option “enable move mode” and press the **OK-Button.**

Use the **Navigation-Buttons up/down** to select the service that you want to move and press the **OKButton**. The service will be highlighted red.

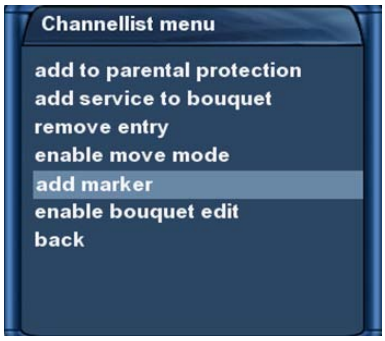
Use the **Navigation-Buttons up** and **down** to move the service to the desired position. Press the **OKButton** to release the service and thus placing it at it’s new position.
You can move services as long as the move mode is activated. To disable the move mode press the **MENUButton** to get into the “Channellist menu” and chose the option “disable move mode” by pressing the **OKButton.**

6.6 Adding a marker to favorites

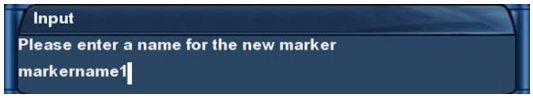
You have the option to add makers within the favorites bouquets.

Channel Selection (TV) Bouquets/alle
All
Satellites
Provider
Favourites
107 ZDF (SOKO Kitzbühel)
108 3sat (ARD-exclusiv)
109 Bayerisches FS (Abendschau)
110 ZDFdokukanal (Ruhrpott-Schnauzen (13))
111 Das Erste (Marienhof)
112 BR-alpha (Straßennamen)
113 hr-fernsehen (Brisant)
114 SWR Fernsehen BW (Essen und Trinken)
115 Phoenix (Frequenzwechsel! Bitte Info-Taste betätigen.)
116 ZDFinfokanal (hallo deutschland)
SOKO Kitzbühel
18:05 - 19:00
18:28
ZDF
Nach seinem Dienstantritt bei der SOKO Kitzbühel hat Klaus Lechner gemeinsam mit Karin Kofler ein Verbrechen zu klären, das im Milieu eines prominenten Scheidungsanwaltes angesiedelt ist.

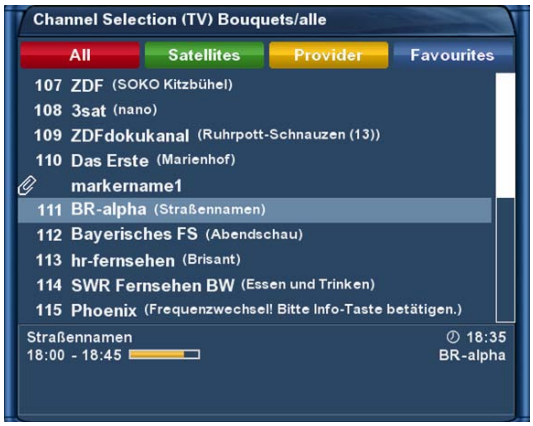
Pressing the **Up/Down-Buttons** on your remote control activates the service list.
Use the **Bouquet +/- Buttons** to switch to the desired bouquet. As an alternative you can press the **blue Options-Button** and select the desired bouquet.
Select a service. The marker will be added above the selected service.



By pressing the **Menu-Button** the "Channellist menu" will open up.
Navigate to the option "add marker".



Use the **Numeric-Keypad** on your remote control to enter the name for the new bouquet. The according letters are printed on button.
The **Mute-Button** and the **Arrow-Left/Arrow-Right-Button** deletes a character.
Press the **OK-Button** to add the marker to your favorites list. You will be taken back to the "Channellist menu".

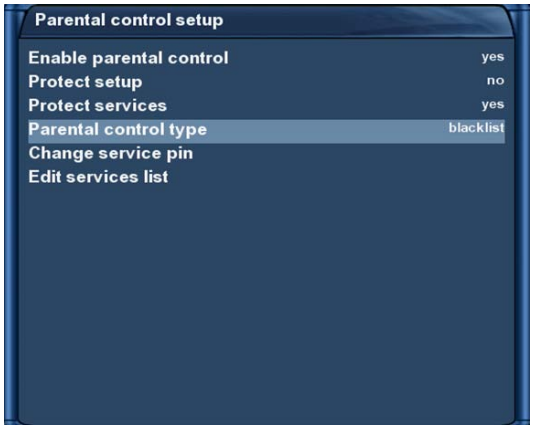


As an example we have added two markers as shown in the picture on the left.
Use **the Arrow-Left** and **Arrow-Right-Buttons** to jump between those two markers.

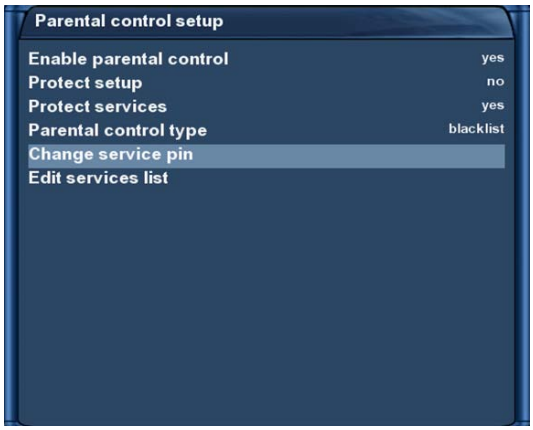
6.7 Parental control

Parental control makes it possible to lock selected channels. If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option Setup" and press the **OK-Button** to select.

Navigate to the "Parental lock" option and press the **OK-Button**.

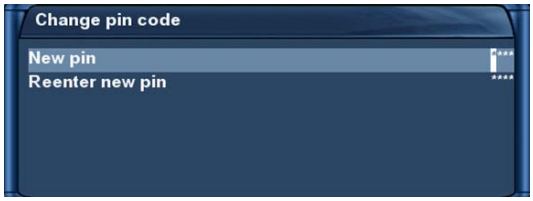


Set the "Enable parental control" option to yes.
Under the "Parental control type" option you can choose between a blacklist and a whitelist.
Whitelist means that all channels NOT in the parental control list will be locked.
Backlist means that all the channels in the parental control list will be locked.

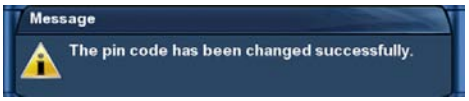


If you want to change the Pincode select the "Change service pin" option and press the **OKButton**.

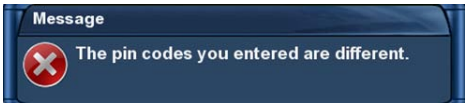
You now will be prompted to enter the old pincode and afterwards the new one.



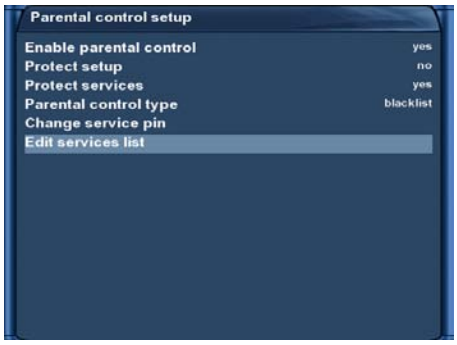
You have to enter the new pincode twice to ensure you didn't make any typing errors.



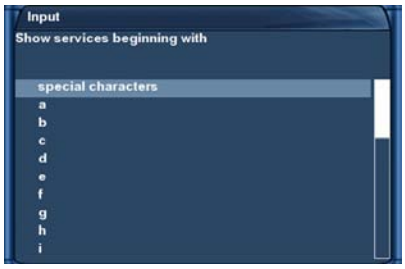
You will see this notice that the pincode has been changed. Press the **OK-Button** to get back into the Parental control menu.



If the entered pincode was false you will see this notice. Press the **OK-Button** to get back into the “Change service pin” menu and to enter the correct new pincode twice.



Now select the “Edit services list” option and press the **OK-Button**.



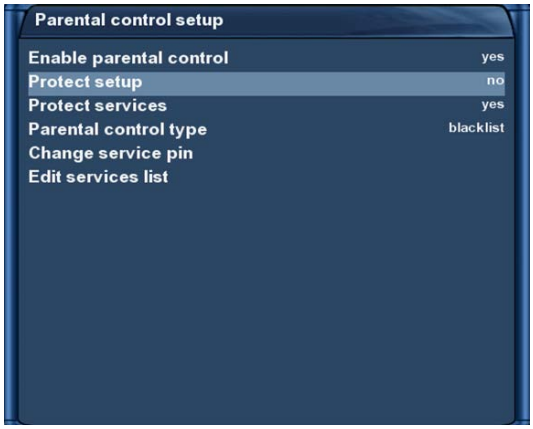
Use the **Navigation-Buttons up/down** to select the first letter of the channel that you want to lock or allow and press the **OK-Button**. In this example we decided to lock the service called “sportdigital.tv”. Accordingly we selected the “S” as the first letter

The Parental control services Editor will open up. All services beginning with the letter S are shown. Select “sportdigital.tv” and press the **OK-Button**.

A symbolized padlock will appear in front of the channel letting you know that it can only be watched when the right pincode is entered. If you have selected whitelist under the “Parental control type” then this channel will be the only one that can be viewed without entering the right pincode.

6.8 Protecting the parental lock setup

Additionally you have the option to protect the parental control menu using a pin code.



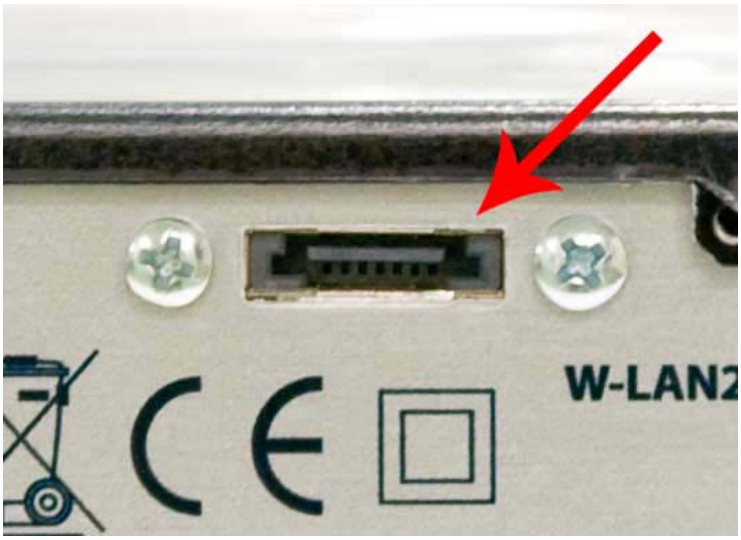
Setting the “Protect setup” option to yes you will only be able to change parental control setting after you have intered the correct pincode.
Once you entered the wrong pincode three times in a row you have to wait 15 minutes before you can try again.

Note: You can use two different pincodes to protect the setup and the service list.

7 Hard disk operation

7.1 How to mount the external E-SATA Hard Disk

An E-SATA Hard Disk can be connected externally in the dedicated port on the back of the receiver:



External E-SATA Hard Disk needs to be powered with its external power supply.

Note!

Before you can use the hard disk you have to initialize it first.

See section 7.2.1 to learn how to do.

7.2 Management

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

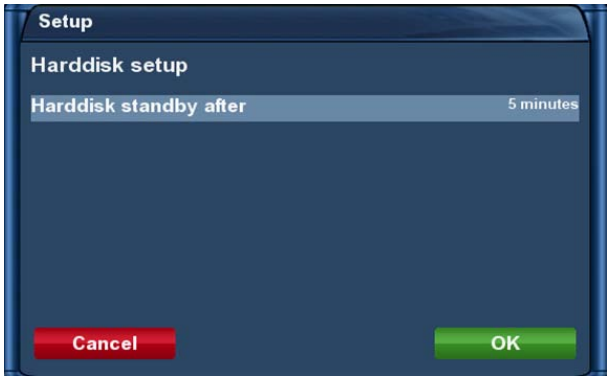
Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**

   - The “System” menu will open up.

2. Navigate to the option “Hard disk…” and press the **OK-Button**

3. Navigate to the “Hard Disk setup” option and press the **OK-Button**



You now can set the duration of time after which the hard disk will be put into standby-mode.

You can select from:

- No standby

- 10 or 30 seconds

- 1, 2, 5, 10, 20 or 30 minutes

- 1, 2 or 4 hours

Once you have selected the desired time press the **OK-Button** or the **green Options-Button** to get back into the harddisk menu.

7.2.1 Initialization

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

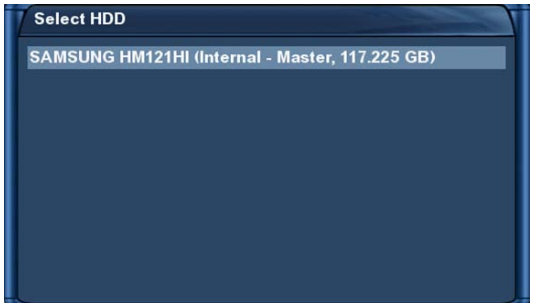
Navigate to the option “Setup” and press the **OK-Button** to select.

4. Navigate to the option “System” and press the **OK-Button**

   - The “System” menu will open up.

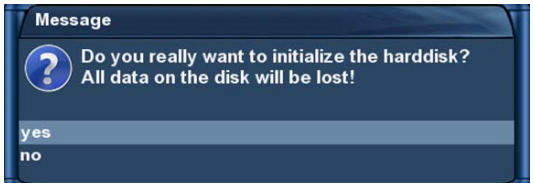
5. Navigate to the option “Hard disk…” and press the **OK-Button**

Navigate to the “Initialization” option and press the **OK-Button**.



If you have installed another hard disk this option will differ from the one depicted!

By pressing the **red Options-Button** you will initialize (format) the hard disk. After you confirm the safety question the initialization process starts.

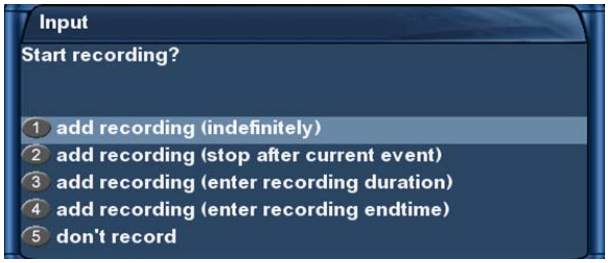


WARNING!!!

All data stored on the HDD will be lost.

7.3 Recording

7.3.1 Instant Recording


Input
Start recording?
1 add recording (indefinitely)
2 add recording (stop after current event)
3 add recording (enter recording duration)
4 add recording (enter recording endtime)
5 don't record

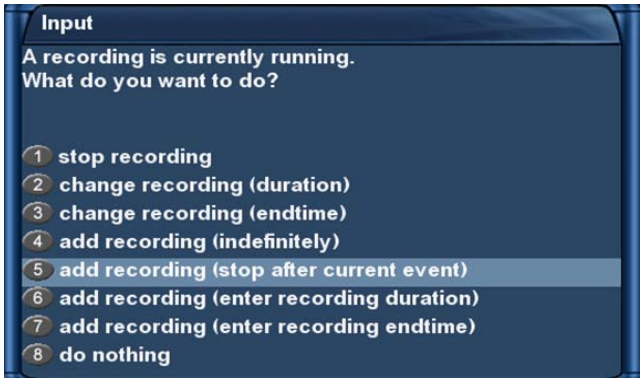
Press the **red Options-Button**.
You have five available options:

- Add recording (indefinitely)
- Add recording (stop after current event)
- Add recording (enter recording duration)
- Add recording (enter recording endtime)
- Don't record

Use the **up/down-Buttons** to navigate to you desired selection and press the **OK-Button** to select.

A ongoing recording is indicated by a flashing symbol in the Infobar (see chapter 4.10).During a recording you can watch another service, view a previously recorded movie or add an additional recording. The number of simultaneous recordings depends on the number of services residing on a transponder[1].

It is possible to make up to four simultaneous SDTV or two HDTV recordings.

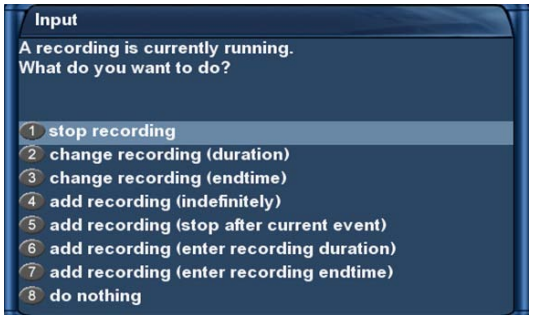

Input
A recording is currently running.
What do you want to do?
1 stop recording
2 change recording (duration)
3 change recording (endtime)
4 add recording (indefinitely)
5 add recording (stop after current event)
6 add recording (enter recording duration)
7 add recording (enter recording endtime)
8 do nothing

Pressing the **Up/Down-Buttons** on your remote control activates the service list. The recording continues in the background.

Once a recording is started, no matter if manually or by timer (see chapter 7.3.3) it will be signaled by a note on the screen.

1 Every services resides on a so called transponder. A transponder contains a number of services.
Example: ZDF-Transponder via satellite
This transponder contains the services: 3sat, Kika, ZDF, ZDFdokukanal, ZDFinfokanal, ZDFtheaterkanal
If you now start a recording on “ZDF” only the services on the same transponder on this tuner are available any more.
The unavailable services will be marked grey in the services list, once a service on the tuner is in use either by recording.

7.3.2 Stop recording


Input
A recording is currently running.
What do you want to do?
1 stop recording
2 change recording (duration)
3 change recording (endtime)
4 add recording (indefinitely)
5 add recording (stop after current event)
6 add recording (enter recording duration)
7 add recording (enter recording endtime)
8 do nothing

Switch to the service which recording you want to stop.
Press the **red Options-Button**, select the "Stop recording" option and press the **OK-Button** to select.

The recording will be stopped immediately.

7.3.3 Recording by timer

You see the “Timer Editor“ menu.
Pressing the **red Options-Button** will delete a timer.

The **green Options-Button** adds a timer, the **yellow Options-Button** toggles active on and off (only possible in waiting status) and the **blue Options-Button** removes finished timers from the list.

To edit an existing time select it and press the **OK-Button**.

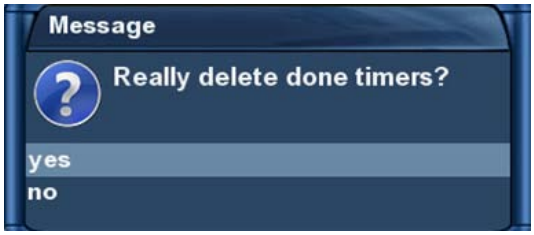
The status of a timer is shown on the right side:

- **waiting** means: still coming up

- **recording** means: recording right now

- **done** means: recording finished

- the red **X** indicates that a timer was deactivated



If you pressed the **blue Options-Button** you will be asked if you really want to delete the finished timer.

Use the **Navigation-Buttons up** and **down** to select.

Press the **OK-Button** to activate.

7.3.4 Manual programming

Press the **green Options-Button** to add a new timer.

You can choose between two different timer types. "Record" to record the desired show or "Zap" to automatically switch to the service.
As repeat type you can choose between "once" and "repeated"
The repeat type "repeated" offers you the following options:

- Daily
- Weekly with choice of weekday
- Monday through Friday
- User defined

For all four options you can set a date for the first execution of the timer
You can decide what should happen after the recording finishes by selecting the "After event" option. You can choose between "do nothing" to keep you QBox in the same state as before the recording or "Go to deep standby" to shutdown your QBox once the timer is done.

Set you desired option by pressing the **Navigation-Buttons up/down** and **left/right** and press the **green Options-Button** to save the timer.

7.3.5 Timeshift

Once you started an instant recording you can fast-forward and rewind while recording as long as you have already recorded at least 1 minute long.
Press the **yellow Options-Button** to pause the screen (video and audio will pause). The recording will continue in the background. Press the **yellow Options-Button** again to resume watching. This way you won't have to miss anything ever again if you quickly have to catch a phone call.

The Timeshift-Mode can be exited by pressing the **TV-Button**.

You will be asked if you want to quit the Timeshift-Mode.

Use the **Navigation-Buttons up** and **down** to select.

Press the **OK-Button** to activate.

7.4 Watch a Recording

Press the **Video-Button** to get to the selection of recordings.

Use the **Navigation-Buttons up** and **down** to select a recording. Press the **OK-Button** to start playing it.

During replay you can see the control symbols in the Infobar.

Press the **Navigation-Buttons up** and **down** or the **Video-Button** to get back to the list of recordings.

If you have previously watched the movie you will be asked to continue where you left off when you start watching it the next time. If you do not make a selection within 10 seconds the window will disappear and the movie starts from the beginning.

In PVR-Mode the Options-Buttons are mapped as described below:

Keep in mind that you have to be in the PVR-Mode to use these options. You can check this by pressing the **OK-Button**. The Infobar will reveal and should show the depicted control symbols. If they are not shown you simply have to press the **Video-Button** once again.

The PVR-Mode can be exited by pressing the **TVButton**.
You will be asked if you want to stop the replay of the recording.
If you choose “Yes” you will be taken back to the last channel you were watching.

Skipping in a recording

Button	Time	Button	Time
1	10 sec back	3	10 sec. forward
4	1 min. back	6	1 min. forward
7	5 min. back	9	5 min. forward

Spooling in a recording

The following speeds for spooling in a recording are available:

- Forward (*blue Options-Button*): 2x,4x,8x,16x,32x,48x,64x,128x
- Back (*red Options-Button*): 8x,16x,32x,48x,64x,128x

Every press on the button increases the speed by one step.

7.5 Setting a marker (Bookmarks)

Fast forward to the point where you want to add a marker and press the **0** on the **Numeric-Keypad**. This will set a marker at the desired point.

The red dashes in the timeline correlate to a marker.

Skip to a marker

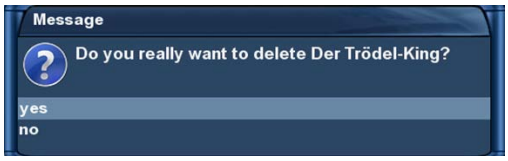
You can directly skip to a previously set marker during playback.
Press the Arrow-Left-Button to jump to the previous marker or the Arrow-Right-Button to jump to the next marker.
To delete a marker skip to it as described above and press the 0 on the Numeric-Keypad.

7.6 Delete a Recording

Press the **Video-Button** to get to the selection of recordings.

Use the **Navigation-Buttons up** and **down** to select a recording. Press the **Menu-Button**.

Use the **Navigation-Buttons up** and **down** to select “Delete” and press the **OK-Button**.



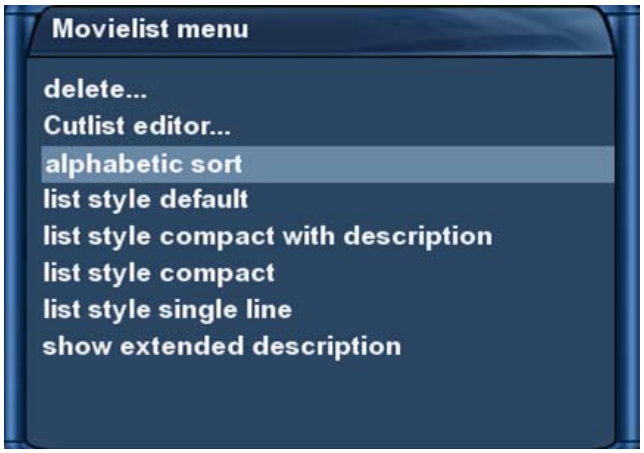
You will be asked if you want to delete the recording.

As a control feature the name of the recording is displayed as well.

Choose “Yes” and you will be taken back to the selection of recordings.

7.7 Movielist options

To access the Movielist menu press the **Video-Button** and then the **Menu-Button**.



Sorting options

You have the choice between two different sorting options:

1. Alphabetic sort
2. Sort by date

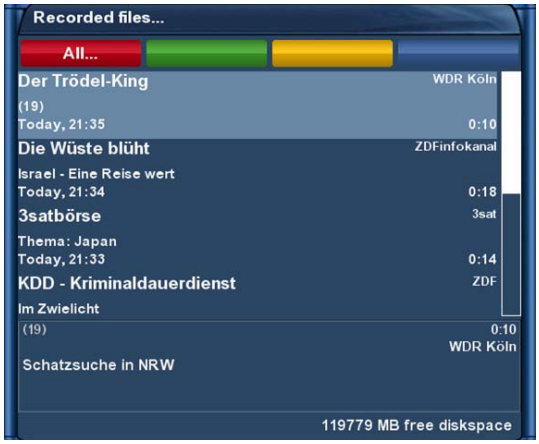
List styles

You have the choice between different list styles:

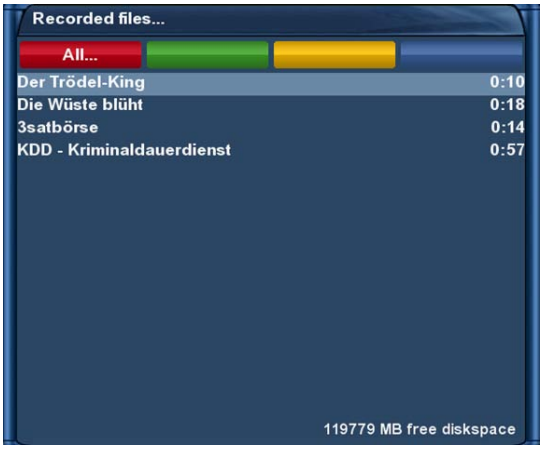
- List style default
- List style compact with description
- List style compact
- List style single line
- Show extended description

List styles

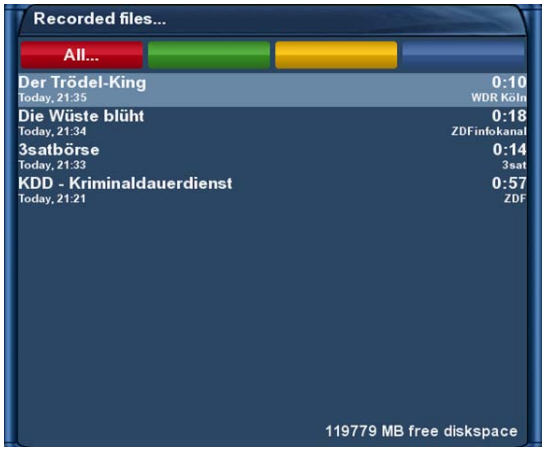
List style default



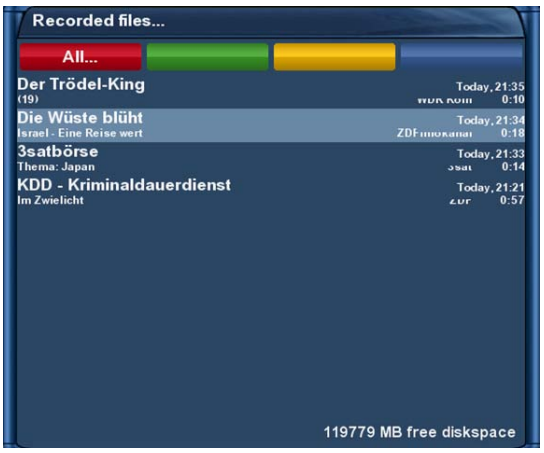
List style default with extended description



List style single line



List style compact



List style compact with description

8 Teletext

You are in the TV or Radio mode.
Press the **Text-Button** to enter the Teletext.
Keep in mind that not every station transmits Teletext! Teletext - regular navigation:

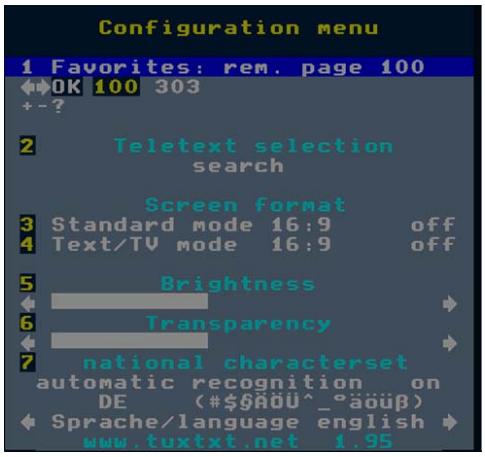
If you are viewing any Teletext page you can enter the interactive mode by pressing the **OK-Button**. Use the **Navigation-Buttons** to select a text page number and press the **OK-Button** to call this page. You don't need to type in a text page number in this mode, but it is still possible.

Press the **EXIT-Button** to exit.

Press the **Mute-Button** a couple of times to toggle between transparent-mode, invisible-mode and full mode. The alpha-mode shows the picture from the running program through the text pages. The invisible-mode shows the complete picture from the running program without exiting the Teletext. The full-mode brings back the text page.

Press the **Volume-up-Button** to toggle between double high from the upper half, double high from the lower half and full view text page.

Press the **Volume-down-Button** to activate or deactivate the PIG-Mode (Picture in Graphics). Same view from Text page and Program picture. (best results are show on 16:9 TV's during 4:3 transmission).



Teletext configuration menu:

If the Teletext page 100 is shown you can press the **MENU-Button** to enter the Teletext configuration menu.

You have the following options:

Teletext - Selection:

Select the "Search" option and press the **OK-Button** to start searching for Teletext information on other services without having to leave the service that you currently are watching. After the search is finished you can use the **Navigation-Buttons left** and **right** to select the Teletext of another service without having to switch services. Press the **OK-Button** to select the desired Teletext. This option is only available if more than one service on the current satellite transponder actually transmits Teletext information. If this is not the case you cannot make a selection.

Screen format:

Standard mode 16:9 = on/off

Enabling this shows the TuxText in 16:9 Aspect Ratio. Press the **OK-Button** to enable or disable this option. The default setting is disabled.

Text/TV mode 16:9 = on/off

Enabling this, switches the TV to 16:9 Aspect Ratio if the PIG-Mode is activated with the **Volumedown-Button**. Press the **OK-Button** to enable or disable this option. The default setting is disabled.

Note:
On some older 4:3 TV's these Modes may not work. If enabled, it could happen, that your TV switches away from the VCR or A/V socket. If you are using a 4:3 TV, we suggest not to enable these modes.

Brightness:

Here you can adjust the brightness of your Teletext. Press the Navigation-Buttons left or right to adjust the brightness.

Transparency:

Here you can adjust the transparency value of your Teletext. Press the Navigation-Buttons left or right to adjust the alpha value.

National character set:

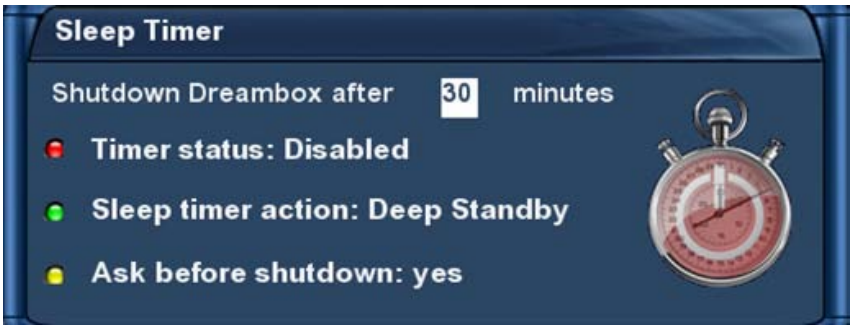
automatic recognition = on/off

The national codepage detection is used to display the teletext pages with the right letterset for your location. Press the OK-Button to enable or disable this option. The default setting is enabled. If disabled, use the Navigation-Buttons left or right, to choose your codepage.

For further information see www.tuxtxt.net

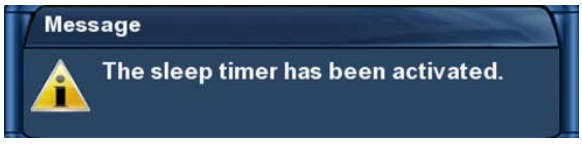
9 Sleep timer

Using the sleep timer you can put your QBox into standby or turn it off after a predetermined amount of time.
Press the **blue Options-Button** and select the option “Sleep Timer”



Shutdown QBox after:
Set the number of minutes after you wish the predetermined shutdown action to be executed.
Timer status:
Set this option to “enabled” to activate a set sleep timer or to “disabled” to deactivate a set sleep timer.
Press the **red Options-Button** to change the status.
Sleep timer action:
Select “Deep Standby” to completely turn off you QBox or “Standby” to put it into standby mode.
Press the **green Options-Button** to toggle the sleep timer action.
Ask before shutdown:
If this option is set to “Yes” a safety window will appear once the sleep timer is executed asking you if you really want to turn off your QBox.
Press the **yellow Options-Button** to toggle this option.

Once you have set all options to your liking press the **OK-Button** to save your settings.



A short note will tell you that the sleep timer has been activated.

10 Preferences

10.1 Language

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.

2. Navigate to the option “Language…” and press the **OK-Button**.
   - The “Language” menu will open up.

Select your desired and language with the **Navigation-Buttons up** and **down**. Press the **OK-Button** to activate.

The **Exit-Button** will quit this menu.

10.2 Customize

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

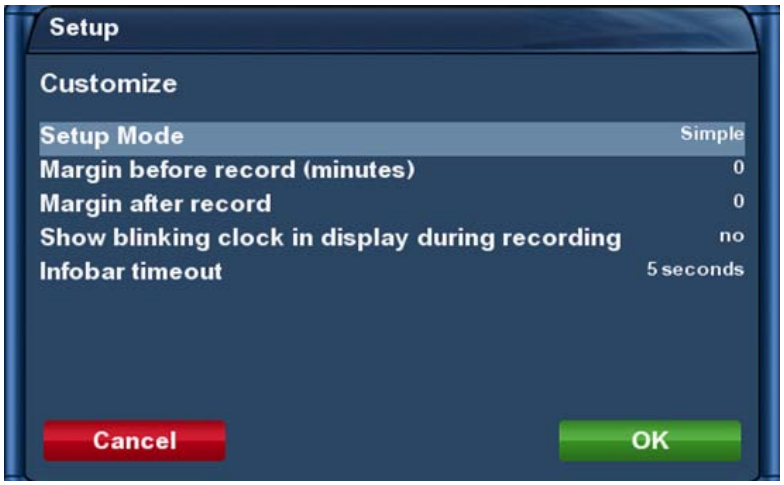
Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.
2. Navigate to the option “Customize…” and press the **OK-Button**.

Setup modes:

There are three different user modes: Simple, Intermediate and Expert. This gives you the possibility to set the level of options to your needs. Intermediate is the default setting. We will not explain the expert mode in detail in this manual.

Simple mode:



Margin before record (minutes):

Set the desired forerun in minutes for a recording.

Margin after record:

Set the desired lag in minutes for a recording.

Show blinking clock in display during recording:

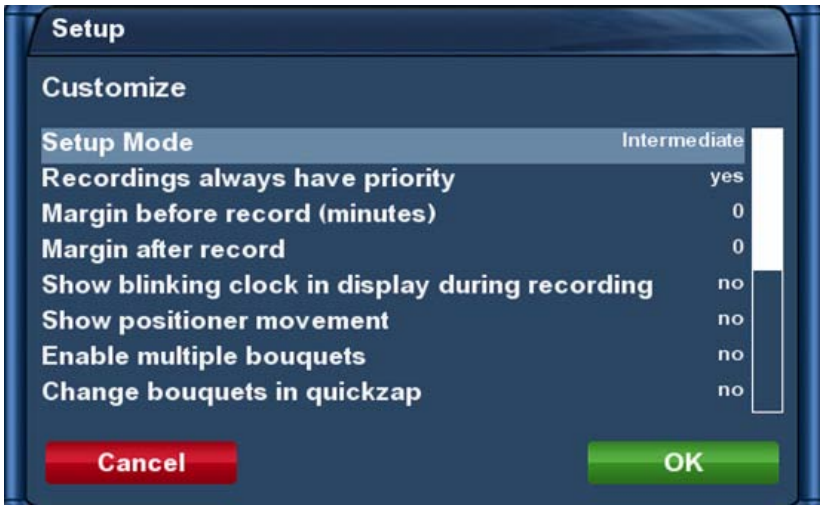
Select weather you want the time in the LC/Display to blink during a recording or not.

Infobar timeout:

Set the desired time after which you want the Infobar to disappear. You can choose between one and ten seconds or “no timeout”.

Intermediate mode:

These settings supplement the settings in simple mode.



Recordings always have priority:

If this option is set to “Yes” your QBox will automatically switch to the service which is supposed to be recorded in case there is a conflict with an existing timer.

If you set this option to “No” you will be asked if you want to switch to the service which is supposed to be recorded.

Show positioner movement:

If you own a satellite dish with a positioner you can see a flashing symbol of a satellite dish on your screen if you set this option to “yes”.

Enable multi bouquets:

Set this option to “Yes” if you want to use multiple bouquets.

Change bouquets in quickzap:

If this option is set to “Yes” you will automatically be taken to the next bouquet while changing channels once you have reached the end of one bouquet.

Alternative radio mode:

Set this option to “Yes” if you want the handling in the Radio mode to be the same as in the TV mode.

Action on long powerbutton press:

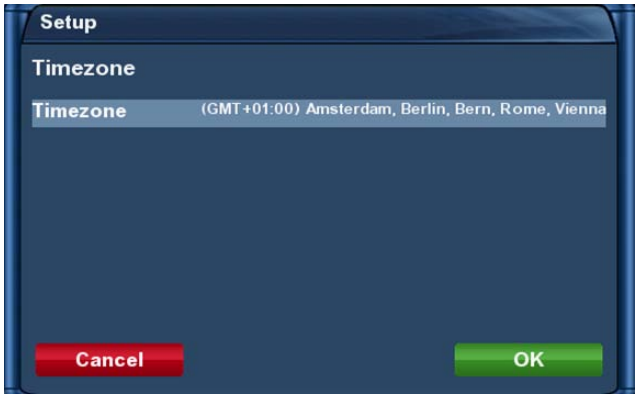
Set your desired option what is supposed to happen if you push the Power-Button for a few seconds. The possible options are “show shutdown menu” and “immediate shutdown”.

10.3 Setting the time zone

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.
2. Navigate to the option “Timezone…” and press the **OK-Button**.



The “Time zone” menu will open up.

Use the **left/right-Buttons** to select the desired time zone.

Press the **green Options-Button** to save the setting or the **red Options-Button** to discard them.

10.4 A/V Settings

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.
2. Navigate to the option “A/V settings…” and press the **OK-Button**.

Video output:

This option selects to which output the video signal will be sent to.

HDMI

If you have connected your TV to the HDMI output of your QBox set the “Output type” option to HDMI

Scart

If you have connected your TV to the Scart output of your QBox set the “Output type” option to Scart.

Mode:

Use the Navigation-Buttons left/right to select the desired screen resolution. This option is only available for the output type HDMI.

Refresh Rate: (This option is only available for the output types HDMI)

Select the refresh rate supported by your TV screen. This is either 50Hz or 60Hz.

Display 4:3 content as:

Pillarbox

4:3 shows will be shown in full height on a 16:9 screen and you will have black bars on both sides.

Pan&Scan

4:3 shows will be shown in full width on a 16:9 screen and a bit will be cut off on the top and bottom.

Just Scale

4:3 shows will be shown in full height on a 16:9 screen and are stretched to fit the width of your screen.

Nonlinear

Only the outer parts of the picture are stretched to prevent the center from being distorted. You will still have a full screen picture.

AC3 default:

If a program is transmitted with an AC3 audio track (e.g. Dolby Digital), the QBox switches automatically to this audio track.

Volume control of AC3 signals only works if AC3 downmix is activated. Please keep in mind that AC3 downmix will disable the output of real AC3 signals on every audio out, even on the S/P DIF output.

AC3 downmix:

If you’re watching a show with a AC3 audio track it will be changed into a stereo signal. Set this option to “yes” if you have an AV-Receiver that does not support Dolby Digital.

These options are only available if the output type is set to “Scart”:

Mode: Scart

Select the standard supported by your TV screen. This is usually either PAL or NTSC. If you own a TV screen which supports both modes you can also select the Multi option. You TV screen will automatically switch depending on the input signal. These options are only available if the output type is set to “Scart”.

Aspect ratio:

Automatic (Standard)

4:3 shows will be shown as 4:3 and 16:9 shows will be shown as 16:9.

4:3

Display 16:9 content as:

Letterbox

16:9 programs will be displayed on 4:3 TV’s with black beams at top and bottom.

Pan&Scan

16:9 programs will be zoomed to full height on 4:3 TV’s, parts of the picture on the left and right side will cut off.

Just Scale

4:3 shows will be shown in full height on a 16:9 screen and are stretched to fit the width of your screen.

16:9 and 16:10:

Display 4:3 content as:

Please see previous page.

Color format:

- CVBS (FBAS),
- RGB (Red, Green, Blue separated),
- SVideo (Color- and Brightness signal separated)

WSS on 4:3:

Check the checkbox to disable zooming on some 16:9 TV’s during 4:3 transmissions.

Press the green Options-Button to save the setting or the red Options-Button to discard them.

You are taken back to the “System“ menu.

> ***Note!***
> Please keep in mind the possible settings of your TV. Some 16:9 TVs automatically zoom on 4:3 content to give you a full screen picture. Refer to your TV’s instruction manual for reference.

10.5 LC-Display

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option “Setup” and press the **OK-Button** to select**.**

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.
2. Navigate to the option “Display setup…” and press the **OK-Button**.

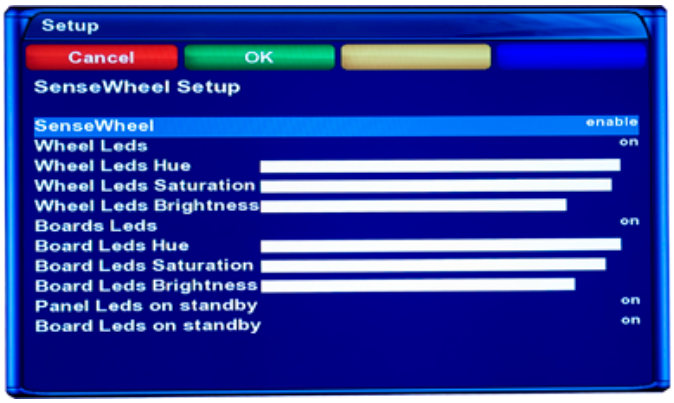
Using the Navigation-Buttons left and right you can set the brightness of the LC-Display.
“Standby” set the brightness value for standby.
All changes will take effect immediately.
Press the green Options-Button to save the setting or the red Options-Button to discard them.
You are taken back to the “System“ menu.

10.6 Front Panel LED color and Intensity

It is possible to customize the Front Panel LED's color and brightness.

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

1. Navigate to the option "System" and press the **OK-Button**.
   - The "System" menu will open up.
2. Navigate to the option "SenseWheel Setup…" and press the **OK-Button**.



SenseWheel

Using the Navigation-Buttons left and right you can set the values of the SenseWheel (Touch Pad in the front panel) "Enable" option of the SenseWheel is default. With "Disable" the SenseWheel will be disabled to prevent accidental mistyping.

Leds

Front Panel leds can be tuned "ON" or "OFF" and Hue, Saturation and Brightness can be changed using the progress bar.

Board Leds

Board Leds are located beneath the Front Panel and can be tuned "ON" or "OFF" and Hue, Saturation and Brightness can be changed using the progress bar.

Board Leds status can be changed even for Stand-by mode.

10.7 Network

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.
2. Navigate to the option “Network…” and press the **OK-Button**.
3. Navigate to the option “Device setup…” and press the **OK-Button**.
4. Navigate to the option “*Integrated Ethernet*” and press the **OK-Button**.

Note!
If you are using a DHCP server in your LAN, configure the DHCP server so it does not assign the IP address used by the QBox. Otherwise an IP address collision is possible. Refer to the DHCP server’s manual about how to configure a DHCP address pool.

Use the **Navigation-Buttons** and the **Numeric-Keypad** to change the values.

Use DHCP:

If enabled your QBox will get its IP from a DHCP server. If you are using a router to access the internet you usually have a DHCP server. Disable this option to set a static IP address.

***IP Address*:**

Enter the IP address here.

***Netmask*:**

Enter the subnet mask (Usually 255.255.255.0).

Gateway:

Enter the router's IP address here, if the QBox is connected to the Internet over a router.

***Nameserver*:**

Enter the DNS-Server's IP address here. DNS is used to translate a Domain name to an IP address. Normally, if the Type is set to LAN, there is no need for a DNS entry. If the QBox is connected to the Internet over a router, enter the router's IP address here.

Activate the network:

Press the **OK-Button** to save the setting and activate the network.

Nameserver Setup

If no OSD menu is visible on your screen, press the Menu-Button to open the main OSD menu. Navigate to the option "Setup" and press the OK-Button to select.

1. Navigate to the option "System" and press the OK-Button.
   - The "System" menu will open up.
2. Navigate to the option "Network…" and press the OK-Button.
3. Navigate to the option "Nameserver setup…" and press the OK-Button.

***Nameserver*:**

Enter the DNS-Server's IP address of your LAN here. DNS is used to translate a Domain name to an IP address. Normally, if the Type is set to LAN, there is no need for a DNS entry. If the QBox is connected to the Internet over a router, enter the router's IP address here.

Press the green Options-Button if you want to add a seconds nameserver.

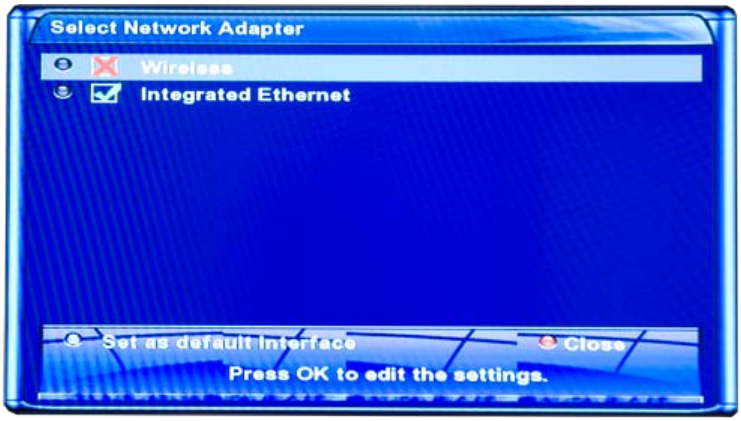
You can enter a maximum of two nameservers.

10.8 Wi-Fi Configuration

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option **“System”** and press the OK-Button.
2. The **“System”** menu will open up.
3. Navigate to the option **“Network…”** and press the OK-Button.

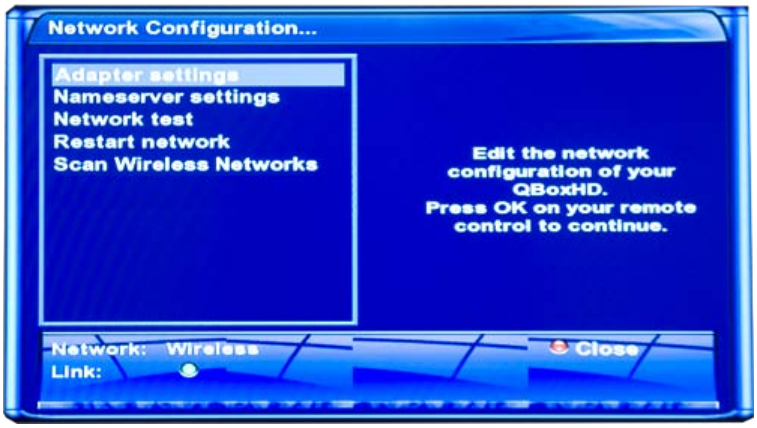


This screen will appear if the Wi-Fi Module is correctly installed *(see Appendix “A” chapter 14).*

If the standard Network Screen will appear *(see Appendix “A” chapter 10.7).* it means that the Wi-Fi module has not been installed correctly. Please check the installation again.

Press on Wireless tag to enter the next menu.

*(Please note that the red cross “**X**” beside “Wireless will become a green “V” right after the first successful wireless configuration)*



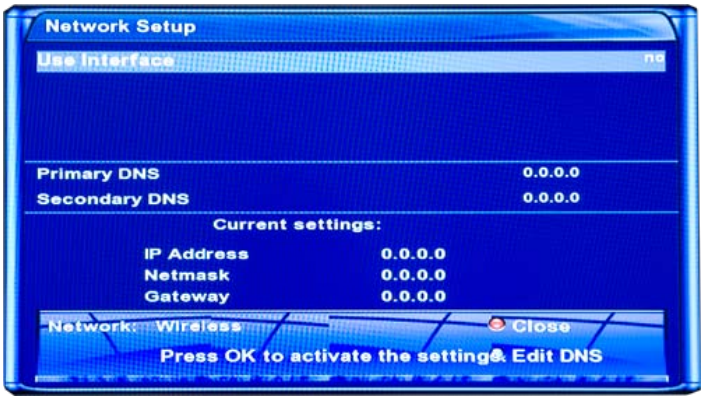
Adapter Settings: *Explained afterward*

Nameserver settings: DNS server IP.

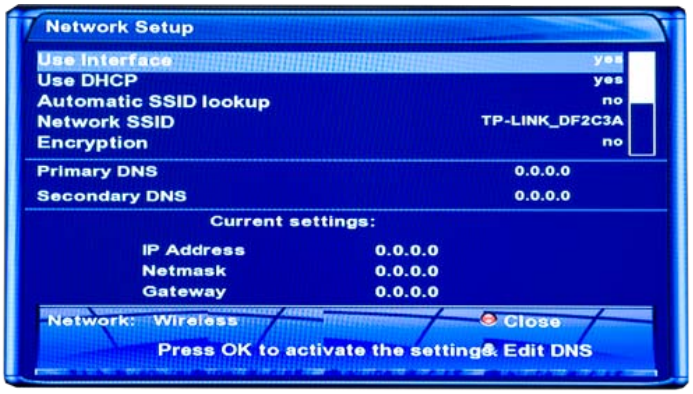
Network test: LAN Adapter, Local Connect, DHCP, IP Address, Name Server tester.

Restart Network: This option will restart and re-initialize the Wi-Fi Module

Scan Wireless Networks: This will scan for the network Access Points or Routers connected in the area. *Explained afterward*



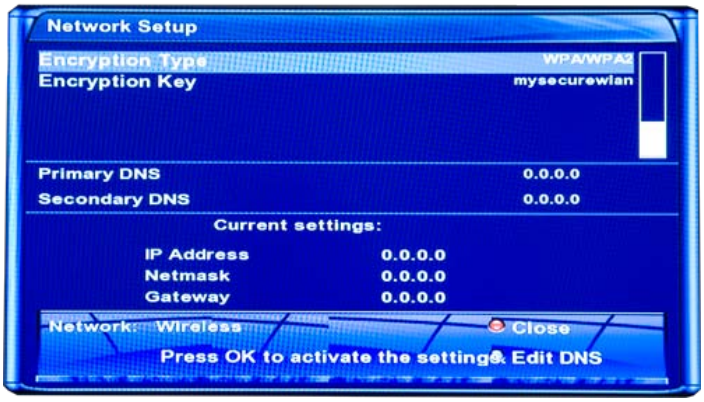
Set “**Use Interface**” to “**yes**” to enable the Wi-Fi.



This screen will appear.

Refer to the network settings chapter 10.7 for standard network settings.

Encryption is coming on next slide



For Wi-Fi encryption set the option **“Encryption”** to “**on**”.

Encryption supported are:

WEP, WPA and WPA2

Choose a Wireless Network
4 Wireless Network(s) found!
TP-LINK_DF2C3A Signal: 0
Max. Bitrate: 36 Mb/s Encrypted: Yes Interface: ra0
cb-test6 Signal: 0
Max. Bitrate: 11 Mb/s Encrypted: No Interface: ra0
TESTN Signal: 0
Max. Bitrate: 18 Mb/s Encrypted: No Interface: ra0
--none-- Signal: 0
Max. Bitrate: 18 Mb/s Encrypted: No Interface: ra0
Connect
Refresh
Close

Scan Wireless Networks: This will scan for the network Access Points or Routers connected in the area. Press Green-button to connect to the Access Point. Press Yellow-button to refresh (re-scan) the list of Access Points in the area.

10.9 Skin

Selecting another skin will change the looks of your OSD(On-Screen-Display).

If no OSD menu is visible on your screen, press the Menu-Button to open the main OSD menu. Navigate to the option “Setup” and press the OK-Button to select.

1. Navigate to the option “System” and press the OK-Button.
   - The “System” menu will open up.
2. Navigate to the option “Skin” and press the OK-Button.
   - The “Skin” menu will open up.

Navigate to your desired skin and press the **OK-Button**.

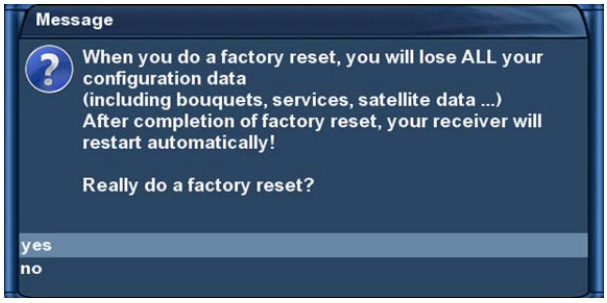
To fully activate the skin the system needs to be restarted.

Use the **Navigation-Buttons up/down** to select your desired option and press the **OK-Button**.

10.10 Factory reset

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “System” and press the **OK-Button**.
   - The “System” menu will open up.
2. Navigate to the option “Factory reset” and press the **OK-Button**.
   - The “Factory reset” menu will open up.


Message
When you do a factory reset, you will lose ALL your configuration data
(including bouquets, services, satellite data ...)
After completion of factory reset, your receiver will restart automatically!
Really do a factory reset?
yes
no

You will be asked if you really want to reset all your settings to the factory defaults.

If you select “yes” all your settings and bouquets will be lost.

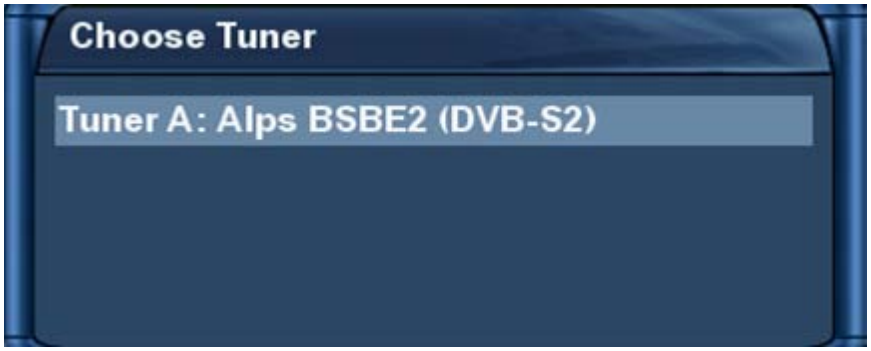
Afterwards your QBox will be restarted automatically.

11 Service searching

11.1 DVB-S Tuner configuration

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option “Setup” and press the **OK-Button** to select**.**

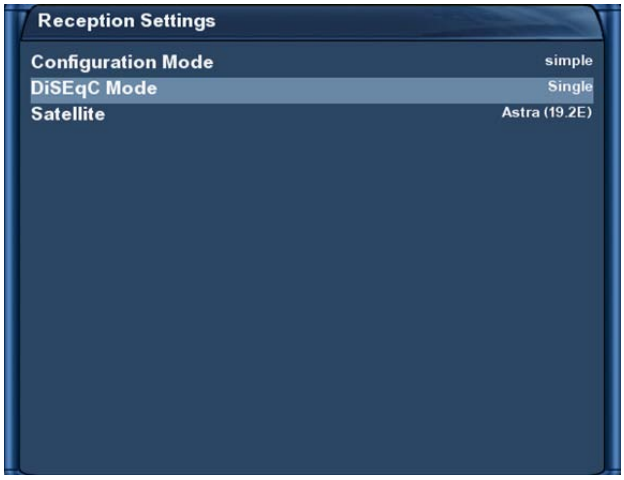
1. Navigate to the option “Service searching” and press the **OK-Button**.
   - The “Service searching” menu will open up.
2. Navigate to the option “Tuner configuration” and press the **OK-Button**.
   - The “Choose tuner“ menu will open up.
3. Use the **Navigation-Buttons up** and **down** to select the “Socket A” and press the **OK-Button**.



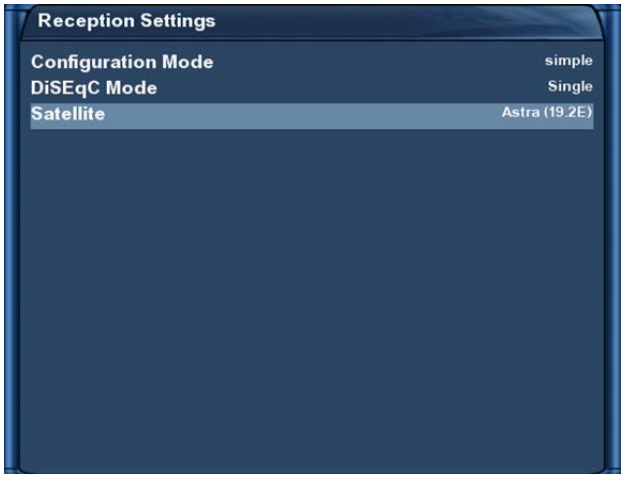
The DVB-S2 tuner’s name may be different from the one shown in the picture

11.1.1 Single satellite – direct connection (DVB-S)

Use this type of configuration if you want to receive a single satellite with a Single Universal LNB. The coax cable is directly connected from you QBox to the LNB.
Please read the section 11.1 ***DVB-S configuration*** to learn how to get into this menu.



The “Satconfig” menu will open up.
Use the **up/down-Buttons** to navigate to the “DiSEqC-Mode” option and use the **left/right-Buttons** to select “Single”.



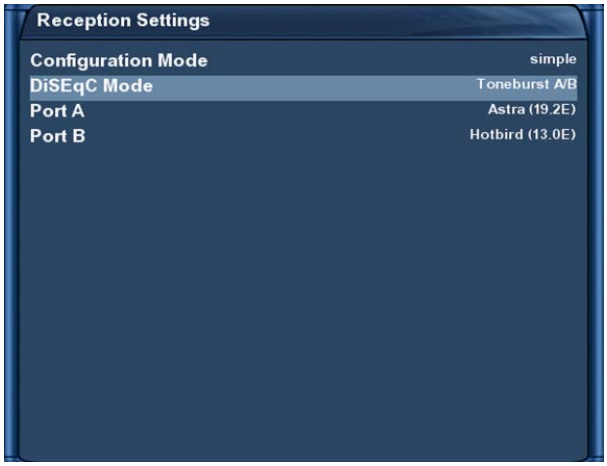
Navigate to the option “Satellite”.

Use to the **Navigation-Buttons left** and **right** to select the desired satellite and press the **OK-Button**.

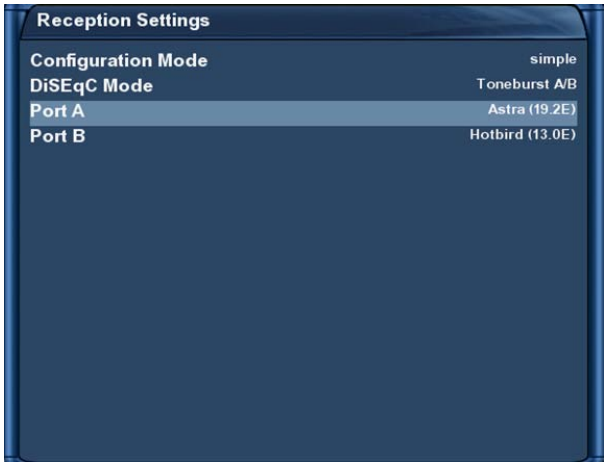
You are taken back to the “Select slot“ menu.

11.1.2 Two satellites via Toneburst A/B (DVB-S)

Use this type of configuration if you want to receive two satellites from one LNB each. It does not matter if you use one or two dishes to achieve this.
Connect the two coax cables form the two LNBs to a so-called Toneburst switch and connect the coax cable from the Toneburst switch to your QBox.
Please read the section 11.1 ***DVB-S configuration*** to learn how to get into this menu.



The “Satconfig” menu will open up.
Use the **up/down-Buttons** to navigate to the “DiSEqC-Mode” option and use the **left/right-Buttons** to select “Toneburst A/B”.



For Port A and Port B select the desired satellites just as described in the ***Single satellite – direct connection*** section.

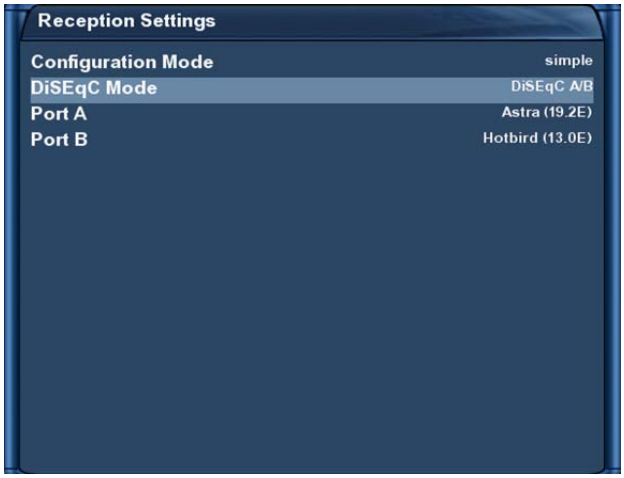
Make sure you know which satellite is connected to which input on the Toneburst switch.

If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.

Press the **OK-Button** to save your settings.

11.1.3 Two satellites via DiSEqC A/B (DVB-S)

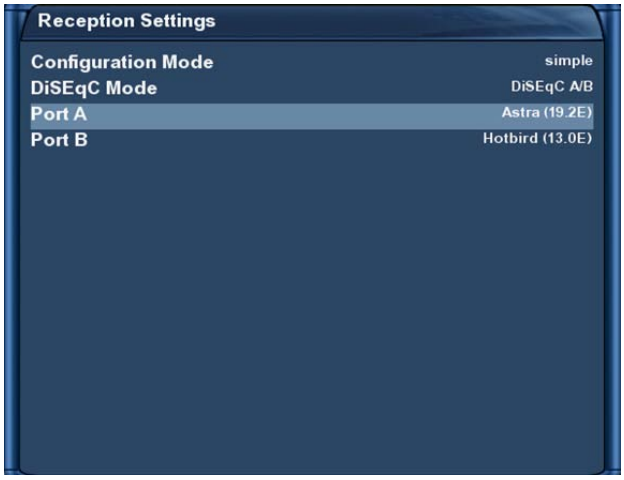
Use this type of configuration if you want to receive two satellites from one Twin Universal or Quad Universal LNB. It does not matter if you use one or two dishes to achieve this.
In this case the LNBs are connected to a so-called Multiswitch from which the signal is via coax cabled to the satellite receivers (QBoxes) in your household.
Please read the section ***11.1 DVB-S configuration*** to learn how to get into this menu.



The "Satconfig" menu will open up.

Use the **up/down-Buttons** to navigate to the "DiSEqC-Mode" option and use the **left/right-**

Buttons to select "DiSEqC A/B".



For Port A and Port B select the desired satellites just as described in the ***Single satellite – direct connection*** section.

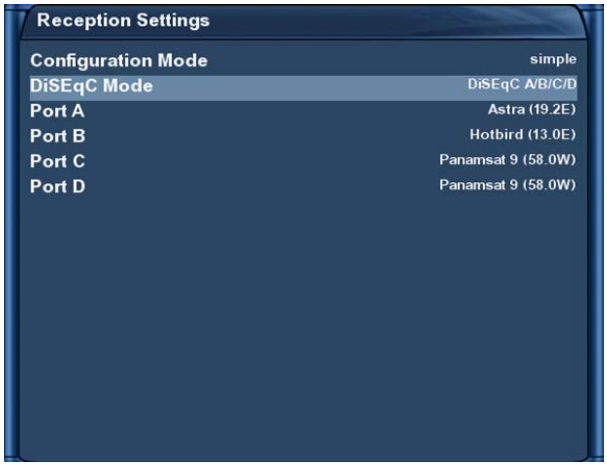
Make sure you know which satellite is connected to which input on the Toneburst switch.

If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.

Press the **OK-Button** to save your settings.

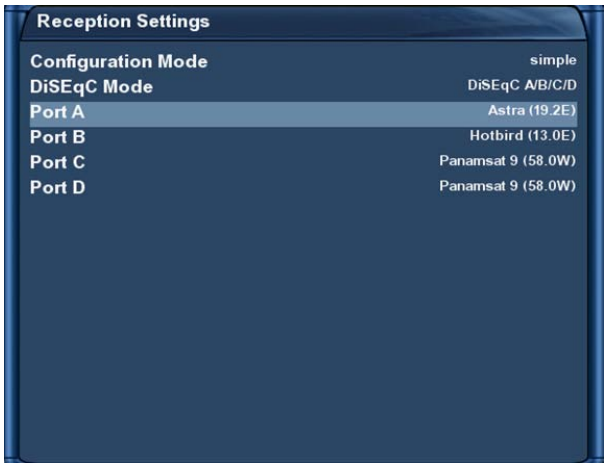
11.1.4 Four satellites via DiSEqC A/B/C/D (DVB-S)

Use this type of configuration if you want to receive four satellites from one Single Universal or Twin Universal LNB for four or eight parties. It does not matter if you use one or two dishes to achieve this. In this case the LNBs are connected to a so-called Multiswitch from which the signal is via coax cabled to the satellite receivers (QBoxes) in your household.
Please read the section ***11.1 DVB-S configuration*** to learn how to get into this menu.



The “Satconfig” menu will open up.

Use the **up/down-Buttons** to navigate to the “DiSEqC-Mode” option and use the **left/right-Buttons** to select “DiSEqC A/B/C/D”.



For Ports A, B, C and D select the desired satellites just as described in the ***Single satellite – direct connection*** section.

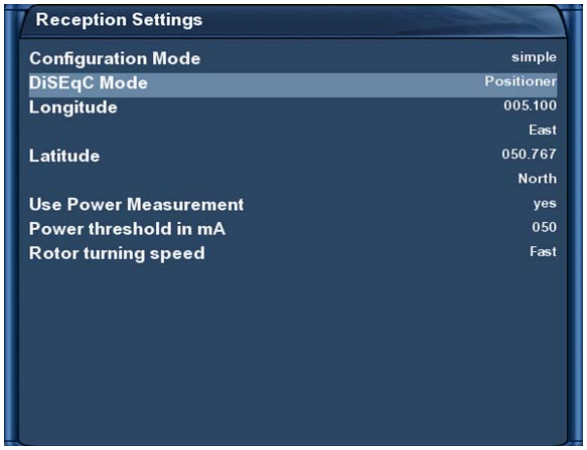
Make sure you know which satellite is connected to which input on the Toneburst switch.

If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.

Press the **OK-Button** to save your settings.

11.1.5 Stab Positioner using USALS (DVB-S)

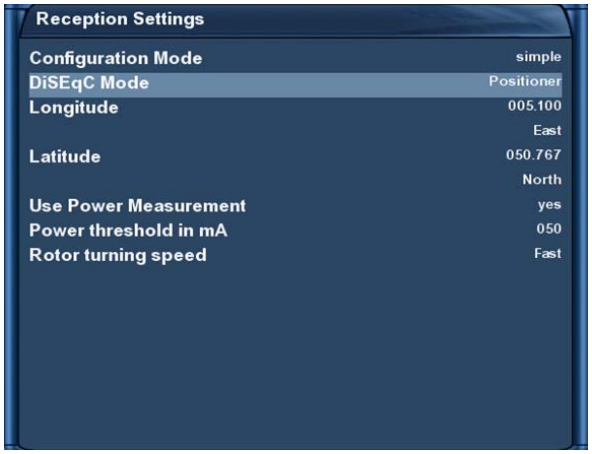
Use this type of configuration if you want to receive many satellites with a Stab positioned from a Single Universal LNB. The coax cable is directly connected from you QBox to the LNB.
Please read the section ***11.1 DVB-S configuration*** to learn how to get into this menu.



The “Satconfig” menu will open up.

Use the **up/down-Buttons** to navigate to the “DiSEqC-Mode” option and use the **left/right-Buttons** to select “Positioner”.
This menu is meant for a Stab positioner. You only have to enter the geographical details of your residence.

At http://www.heavens-above.com you can find the coordinates of your residence.



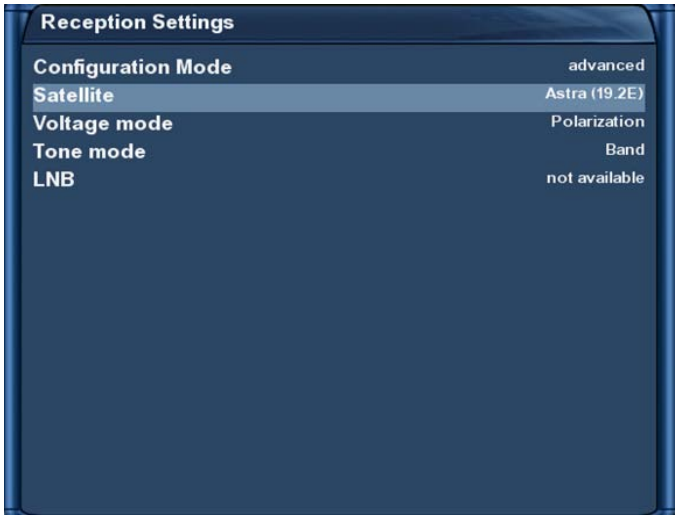
The rest is done automatically by your QBox with build-in **USALS**.

USALS is a model for calculating the position of all satellites in orbit with a margin of error less than 0.1 degrees. **USALS** was developed by the Stab company.

Everything is done automatically and does not require any technical know-how.

11.1.6 Stab Positioner without USALS (DVB-S)

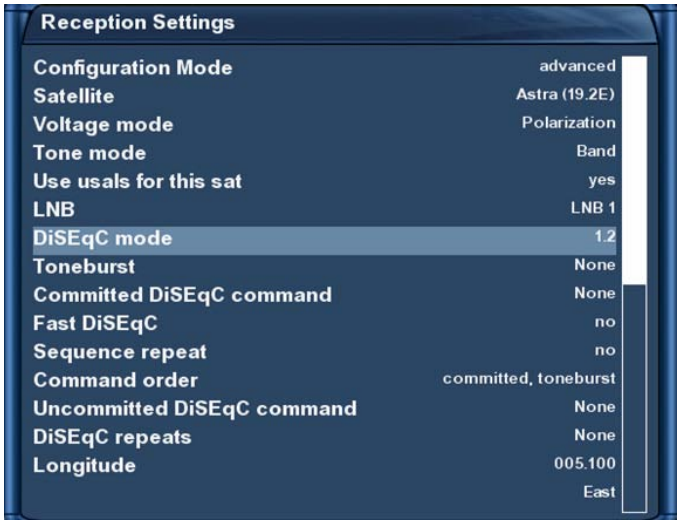
Use this type of configuration if you want to receive many satellites without a Stab positioned from a Single Universal LNB. The coax cable is directly connected from you QBox to the LNB.
Please read the section ***11.1 DVB-S configuration*** to learn how to get into this menu.



The “Satconfig” menu will open up. Using the **Navigations-Buttons left/right** to select the “advanced” configuration. Navigate to the option “Satellite”.

Use to the **Navigation-Buttons left** and **right** to select the desired satellite and. Navigate to the option “Satellite” and press the **Navigation-Button right.**

Use the **up/down-Buttons** to navigate to the “DiSEqC-Mode” option and use the **left/right-Buttons** to select “1.2“.



Navigate to the option “Use Usals for this sat” and change the setting to “no” using the **Navigation-Buttons left** and **right**.

Navigate to the option “Stored position“ and enter position of the selected satellite which is saved in the positioner by using the **Numeric Keypad**.

Refer to the instruction manual or your positioner for the number of the saved position.

11.2 DVB-T Tuner configuration

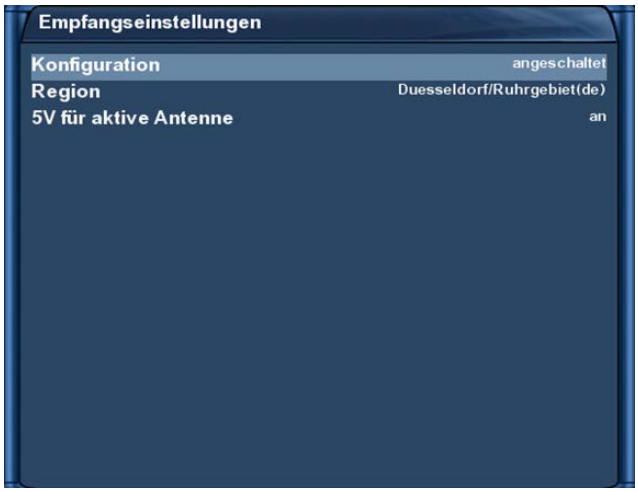
If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “Service searching” and press the **OK-Button**.
   - The “Service searching” menu will open up.
2. Navigate to the option “Tuner configuration” and press the **OK-Button**.
   - The “Choose tuner“ menu will open up.

The DVB-T tuner’s name may be different from the one shown in the picture!

3. Use the **Navigation-Buttons up** and **down** to select the DVB-T Tuner and press the **OK-Button**.
   - The “Reception settings” menu will open up.



Choose your region by pressing the **Navigation-Buttons left/right**.

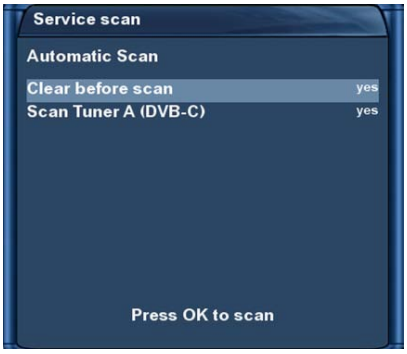
If you have connected an active antenna and you want to run the antenna without its original power supply set the “Enable 5V for active antenna” option to “On”.

Press the **OK-Button** to save your settings.

11.3 Automatic scan

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option “Setup” and press the **OK-Button** to select**.**

1. Navigate to the option “Service searching” and press the **OK-Button**.
   - The “Service searching” menu will open up.
2. Navigate to the option “Automatic scan” and press the **OK-Button**.
   - The “Automatic scan” menu will open up.



Set the “Clear before scan” option to “Yes” if you want to delete all services before the scan starts. Otherwise leave the setting to “No” which results in only new services being added to the channel list.
To find the new services press the **Navigation-Buttons up/down** and afterwards the green Options-Button to access the “Satellites” view. You will find them under “New”.
Use the **Navigation-Buttons up/down** to select a tuner and the **Navigation-Buttons left/right** to enable or disable the scan for the selected tuner.
Press the **OK-Button** to start the scan.

You can see the progress of the scan here.

The scan is done once you see this menu.

It shows how many channels were found during the scan.

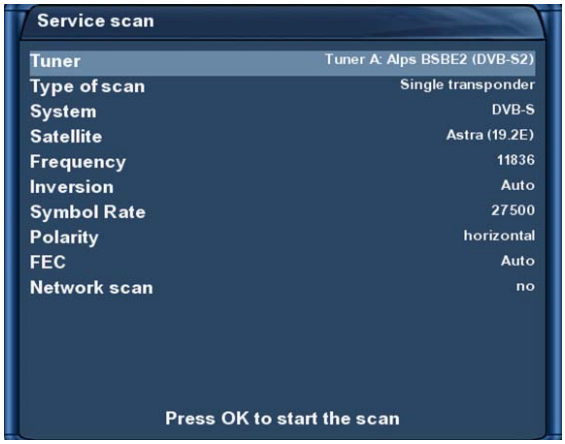
Press the **OK-Button** to close this menu.

11.4 Manual scan

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Setup” and press the **OK-Button** to select.

1. Navigate to the option “Service searching” and press the **OK-Button**.
   - The “Service searching” menu will open up.
2. Navigate to the option “Manual scan” and press the **OK-Button**.



The “Service scan” menu will open up.

Use the **Navigation-Buttons left/right** to select the tuner on which you want to run the manual service scan.

All other options can be changed by using the **Navigation-Buttons left/right** and depend on the type of tuner that you want to run the scan on.

Press the **OK-Button** to start the manual scan.

12 Firmware Update.

Important note!

ALL UPDATE PROCEDURES MAY CHANGE ACCORDINGLY WITH DEVELOPMENT IMPROVEMEMTS. MAKE SURE YOU DOWNLOAD THE LATEST UPDATED USER GUIDE FROM THE OFFICIAL WEB SITE IN ORDER TO GET THE LAST CHANGES.

QBox updating firmware may be needed to fix some bugs or implement new functions. Some bugs that user may discover can be already fixed with an updated firmware.
Please use only official firmware downloaded from the official web sites: www.qboxhd.com or www.duolabs.com
Update can be made via LAN or USB. Both procedures will be shortly described in this guide.

12.1 What is needed to update your QBox

The Hardware needed to update your QBox is the following:

1. **PC with Windows OS**. Windows XP and Windows Vista are supported.
2. **1x LAN Cable**. Ethernet cable can be direct or cross cable. It is needed to connect the QBox to the LAN to perform the update
   or
   1x USB Pen min. 1GB. USB Pen is needed to perform the update in stand-alone mode without using a PC.
3. **1x LAN Switch, HUB or Router.** This is needed to maintain a stable the connection with the QBox. On some PC running Windows Vista OS it is strongly recommended to put a LAN Switch, HUB or Router while it may not be needed on Windows XP.

The Software needed to update your QBox is the **QBox HD Updater**. The latest updating software version can be downloaded from the official web site www.qboxhd.com or www.duolabs.com

Please do not use other software if you are not sure about what you are doing. Failing firmware update may cause fatal damages (not covered by the warranty).

12.2 What to update

There are two parts of Box that can be updated.

1. **Boot Update.** Boot Update will update the NOR memory inside the QBox which contains Kernel, UBoot and other basic function of the QBox.
   Boot Update files have the extension **.qhu**
   Boot Update is a hard update and needs to turn OFF and then ON the QBox.

2. **File System Update.** File System is the update of the internal USB Pen of your QBox. Standard sales configuration of the QBox contains a 1GB USB Pen for storage of small contents or setting or third party applications.
   File System update files have the extension **.tar.gz** or **.tbz**
   File System update is a soft update and needs the Enigma 2 Middleware to be running (the receiver must be in normal operation mode).

3. **Full Recovery.** When a fatal error occurs in the Filesystem and USB gets corrupted or it is needed to do a full update of the entire Filesystem the action to perform is a full recovery. Full recovery is the full image of the Filesystem and Boot or eventually just the Filesystem. A detailed description of the type of Full Recovery comes with the file itself.
   To perform a full recovery it will be needed to download the full image from the official web site. It will be explained in chapter 12.4 how to perform the Full Recovery.

12.3 Updating QBox via LAN (Ethernet)

To proceed with QBox update via LAN (Ethernet) follow the next steps:

1. **Download the latest updating software version** can be downloaded from the official web site www.qboxhd.com or www.duolabs.com and **install it on your PC.**

2. **Connect the QBox to your network** using cross or direct LAN cable.
   It is recommended to connect the QBox to a LAN Switch, HUB or Router to prevent data loss or timeout on some Windows OS.

3. **Launch the QBox HD Updater software:**

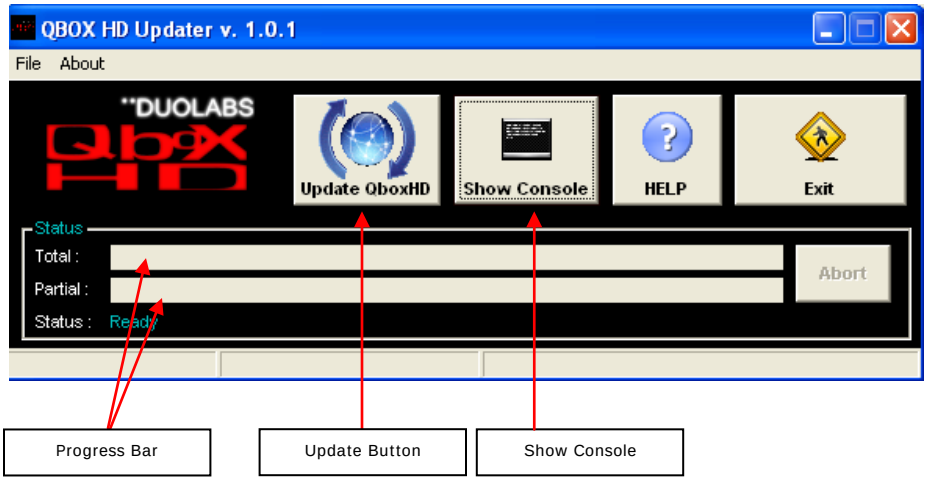
The first time QBox HD Updater is launched it will ask for the IP address. To discover the IP address of your QBox please check the LAN configuration

See chapters 10.7 and 10.8

Standard parameters are:

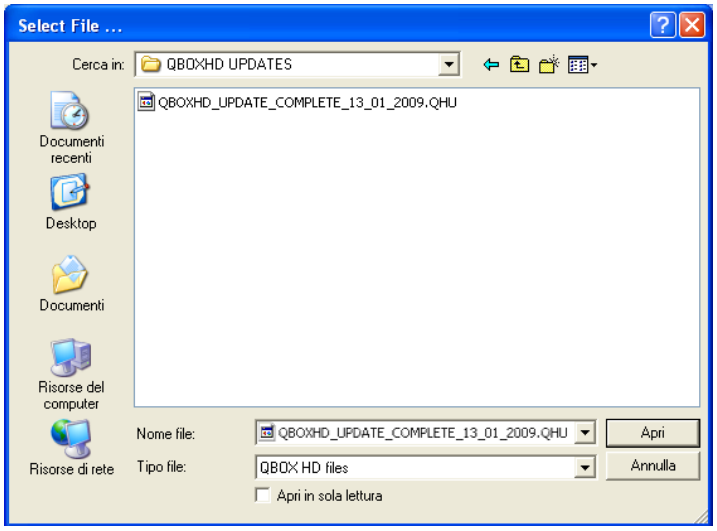
Login: **root**

Password: **qboxhd** *(low case)*
At the end press “Save” and you will be directed to the main software window.



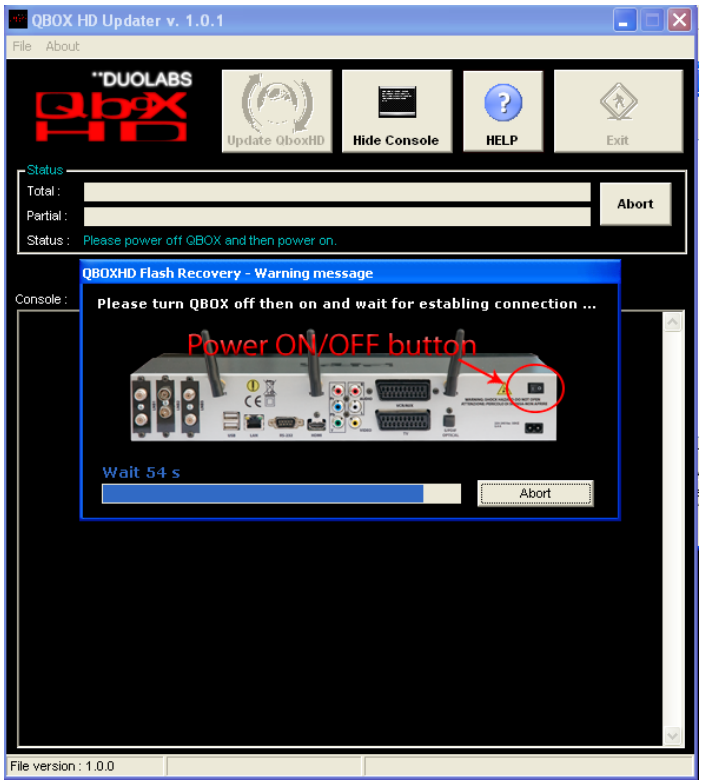
12.3.1 Boot Update

Boot Update. Boot Update will update the NOR memory inside the QBox which contains Kernel, UBoot and other basic function of the QBox. Boot Update files have the extension **.qhu**
Boot Update is a hard update and needs to turn OFF and then ON the QBox.



To start Boot Update press the **"Update Button".**

Choose the **.QHU** file.

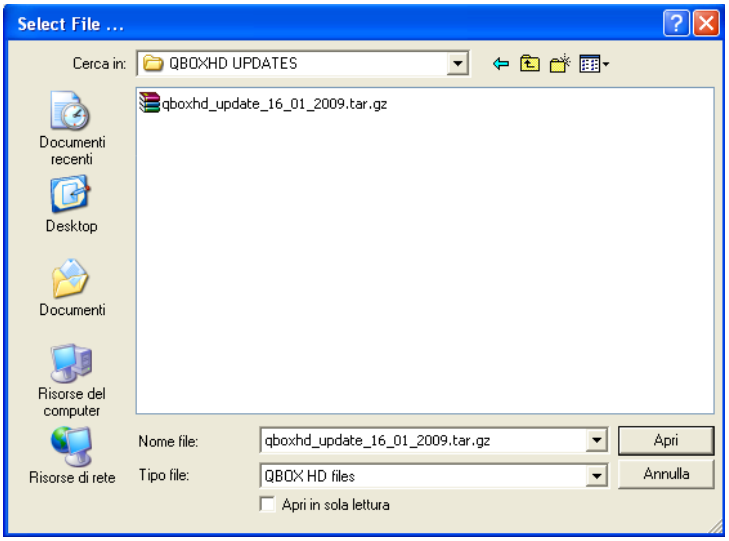


Turn OFF and ON the QBox and the upload will start automatically.

When finished a message will appear

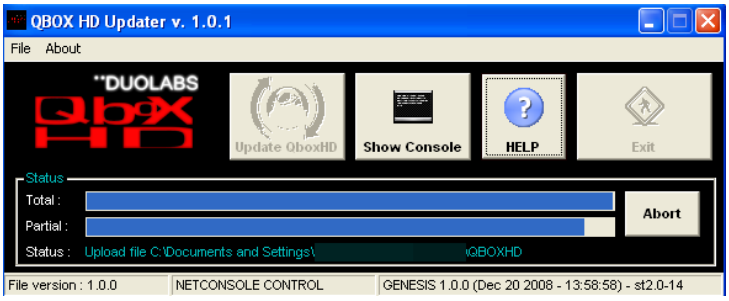
12.3.2 Filesystem Update

File System is the update of the internal USB Pen of your QBox.
Standard sales configuration of the QBox contains a 1GB USB Pen for storage of small contents or setting or third party applications. File System update files have the extension **.tar.gz**
File System update is a soft update and needs the Enigma 2 Middleware to be running (the receiver must be in normal operation mode).



To start File System Update press the **"Update Button".**

Choose the **.tar.gz** or **.tbz** file.



Make sure Enigma 2 (The Middleware/OSD of the receiver) is running!

When finished a message will appear

12.4 Updating QBox via USB Pen

It is possible to update the QBox via USB Pen in stand-alone mode. This update can be a partial update or either a Full Recevory depending on the file that is downloaded from official web site.

1. USB Pen with the update file can be formatted in FAT32 mode.
2. Download the latest QBox update file and make sure the file you are using has the correct extension tar.gz or .tbz
3. Uncompress the .tar.gz or .tbz file into a blank USB Pen (FAT 32 formatted).
   All files must be inside the folder "**qboxhd_update**".
   Make sure qboxhd_update folder is in the main root of the USB Pen and the files and contained in the qboxhd_update directory and not in a subdirectory.
4. Plug the USB Pen in one of USB ports.
5. Turn the QBox OFF.
6. Turn the QBox ON. (Make sure the USB Pen is connected)
7. Wait until the QBox is booting up.

IMPORTANT NOTE!

DO NOT TURN THE RECEIVER OFF WHILE THE UPDATE IS IN PROGRESS. IT MAY TAKE SEVERAL MINUTES!!

12.5 USB Pen features.

Any USB Pen can be used to do the update but it is recommended to use high quality USB pens as the Filesystem is a critical part for the entire Set Top Box usage, it can be considered as the hard disk of a Personal Computer.

The USB Pen containing the Filesystem must be formatted in EXT3 (Linux mode) and the label must be "QBOX_HD" (upper case).

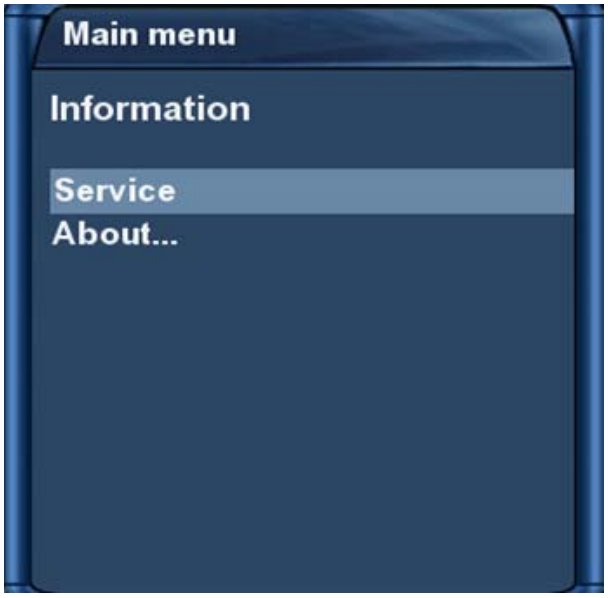
Any other Filesystem pen will not work. As the above format mode or label are features do not apply.

13 System Information

13.1 Service

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Information” and press the **OK-Button** to select.



The “Information” menu will open up.

Navigate to the option “Service” and press the **OK-Button**.

This window shows detailed technical information about the current service.

Press one of the four **Options-Buttons** to get the following information:

red = Serviceinfo

green = PIDs

yellow = Transponder

blue = Tuner status

Press the **OK-Button** to close this menu.

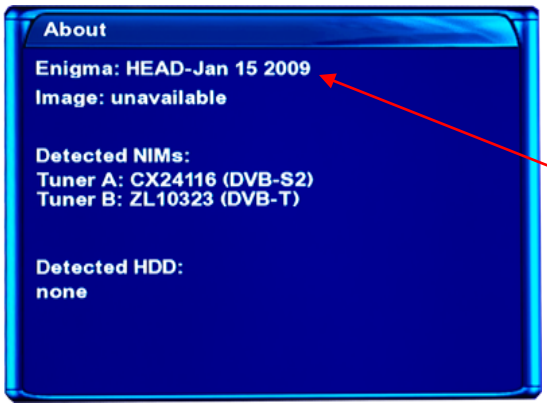
13.2 About (Hard- and Firmware)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu.

Navigate to the option “Information” and press the **OK-Button** to select.

The “Information” menu will open up.

Navigate to the option “About…” and press the **OK-Button**.



This window shows all relevant information about the

Hard- and Firmware of your QBox.

Press the **OK-Button** to close this menu.

14 APPENDIX A
Wi-Fi Module Mounting.

QBox can host a Wi-Fi Module with technology IEEE 802.11n as plug in for WLAN connection to a home network through the router and is 100% transparent as the Ethernet connection.
Please remember to keep the cable Ethernet connection enabled (ON) otherwise Wi-Fi Module will not be activated!
The Wi-Fi Module must be installed inside the QBox and it is not an invasive installation that requires special skills. If you are a novice please rely on somebody who can mount it for you.

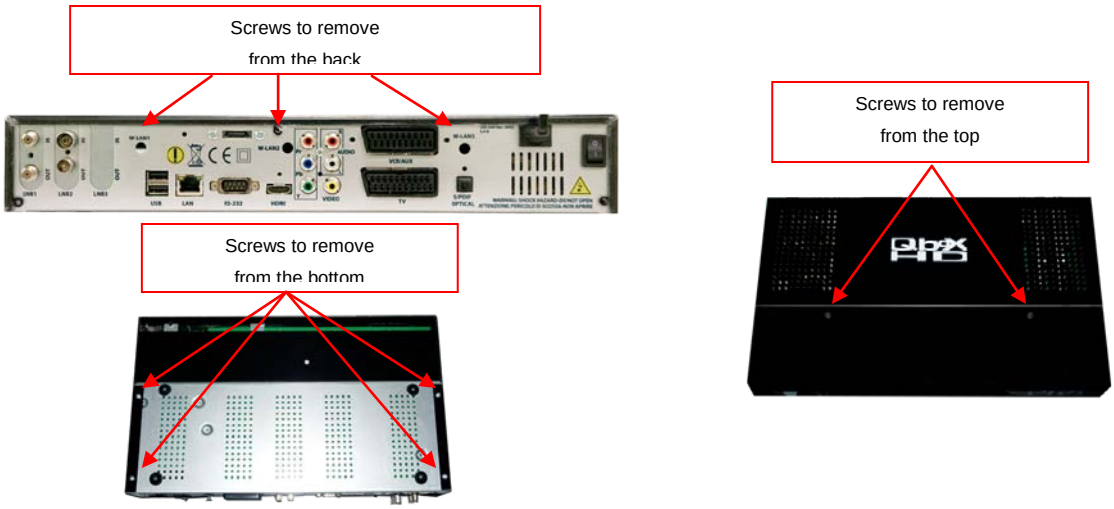
14.1 Wi-Fi Module installation

Please follow step by step:

1. **IMPORTANT!**

Please disconnect the QBox from the Power Connection. Do not open the QBox if the power cord is still connected to the power connector.

2. Please use a star screw driver to remove the screw on the back side of the receiver

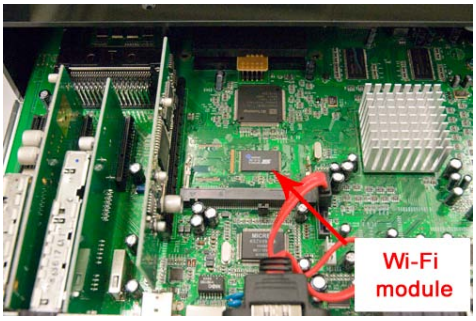


3. Move the metal cover **very slowly** to the back like in the following picture:

4. When you come close to the end please pull **carefully** the metal cover on the

5. Locate the Wi-Fi Module slot:

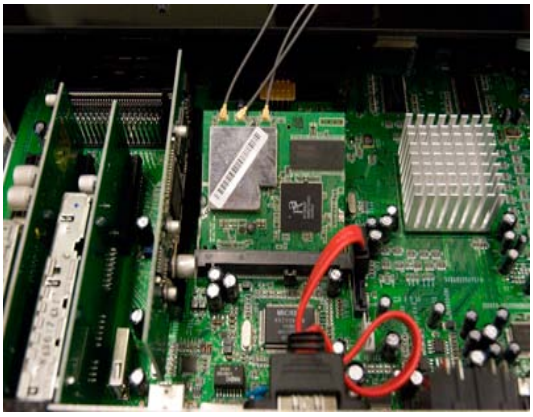
Board version 0.3



Board version 0.4

6. Insert the Wi-Fi Module like here:

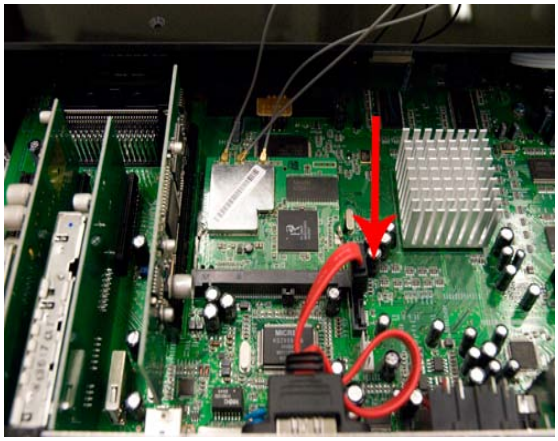
Board version 0.3



Board version 0.4

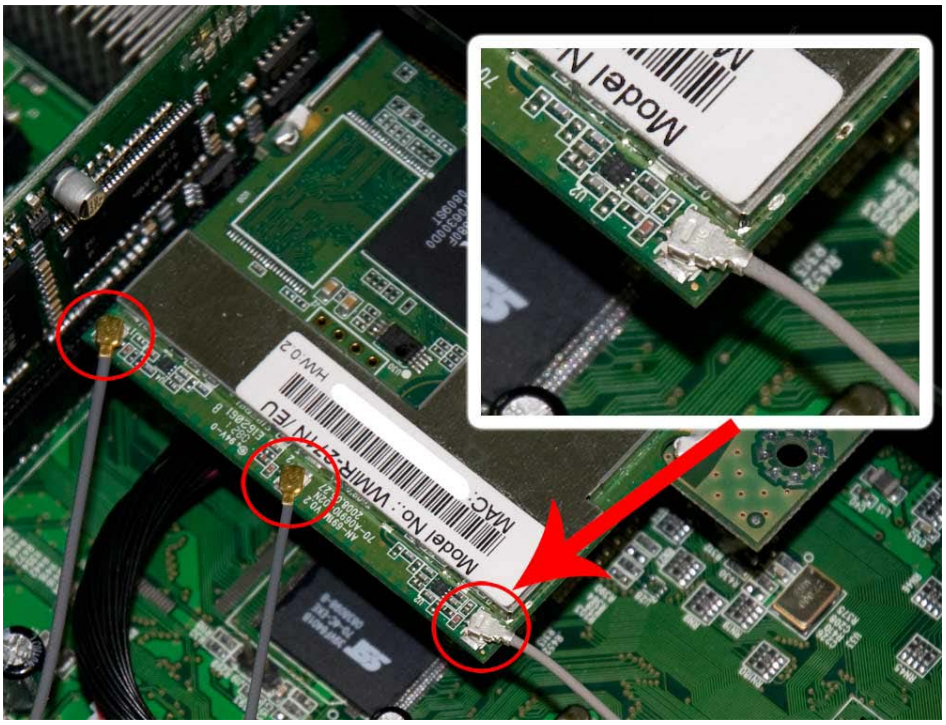
7. Carefully pull down the module like here:

Board version 0.3

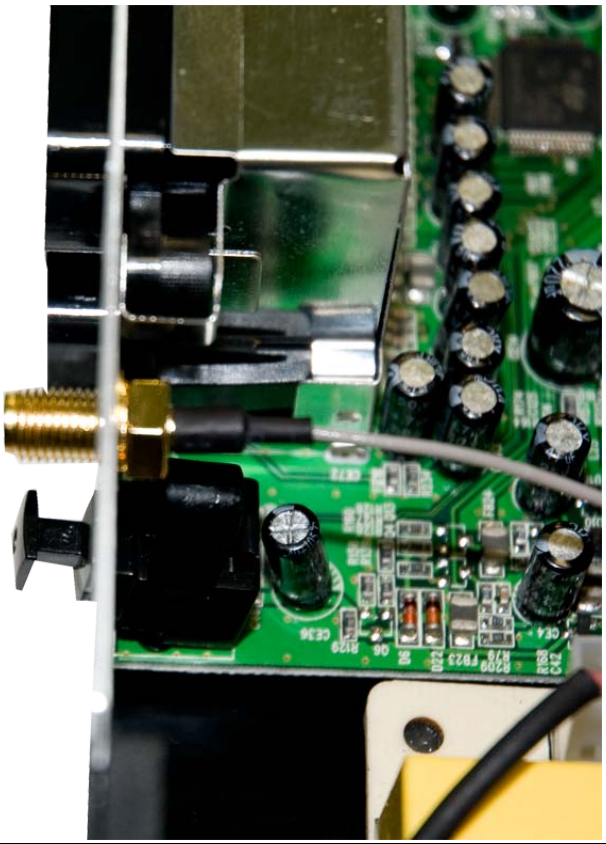


Board version 0.4

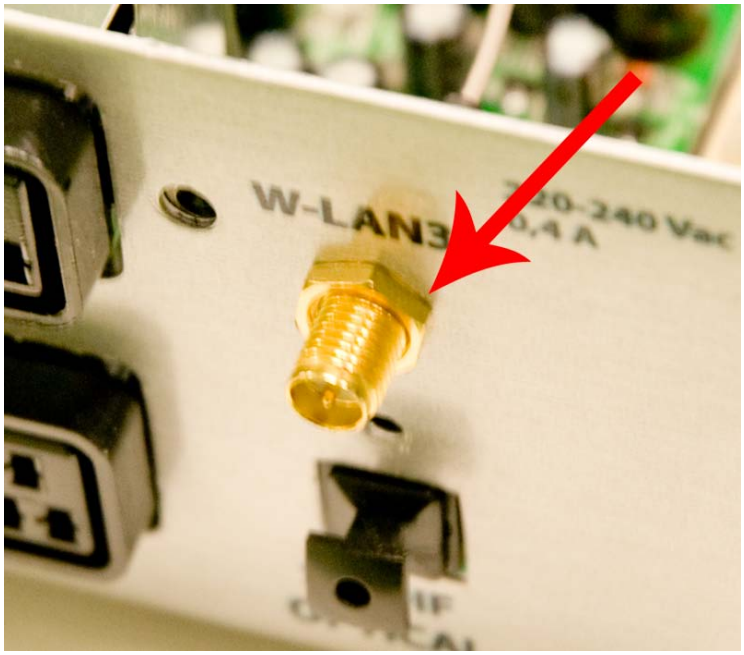
8. Connect the antenna connectors properly:



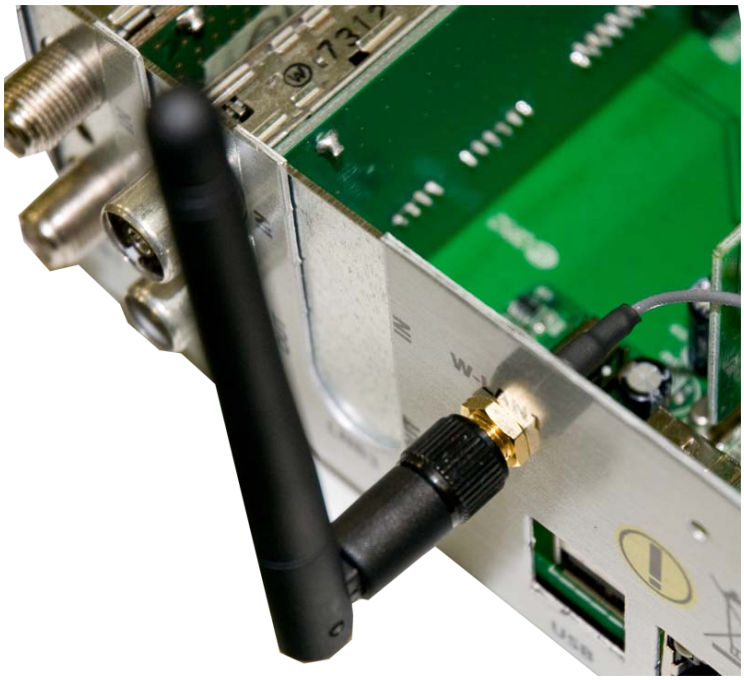
9. Connect the other side of the antenna connector to the back metal panel



10. Fix the ring:



11. Fix the Wi-Fi Antenna



12. Repeat this operation for each of the 3 antennas included in the Wi-Fi module Kit.
13. Close the receiver doing all the procedures on the way around.

15 Technical Specifications

System and Chipsets:

- Chipset STi7101 (ST40 with SH4 Core) at 266Mhz
- 8MByte of NOR ROM for secure bootloader storage
- 128 MB of system RAM.
- FPGA Chipset at 100 Mhz as co-processor with soft 32-bit MCU16MB D-RAM

Video Decoding and Resolution

H.264 (MPEG-4 part 10) and MPEG-2. HD display multi format capable (1080I, 720P, 480P/576P, 480I/576I)

Audio Output

WMA-9, WMA-9 Pro, MPEG-1 layer I/II, MPEG-2 layer II, MPEG-2 AAC, MPEG-4 AAC LC 2-channel/5.1 channel MPEG-4 AAC+SBR 2-channel/5.1 channel, Dolby® Digital EX, Pro Logic® II, MLP™ and DTS®. ***(Potential Audio output. Not all formats are implemented at present)***

Operating System:

- Linux Operating System kernel release 2.6.23.16 (or higher)
- DVB-API version 3 and version 5 (DVB-S2)

Input/Output:

3 x Tuner Input
3 x USB 2.0 input (one used for Filesystem purposes)
2 x ISO 7816 Smartcard Readers
2 x Common Interface Slots
1 x RS-232 Interface
1 x 2,2 inches TFT Display 65536 colors
2 x Scart (RGB, FBAS or S-Video)
1 x RGB Connector (3 RCA - Red Green Blue)
1 x Component (3 RCA - 1 x Video 2 x Audio R/L)
1 x HDMI Output.
1 x S/PDIF Interface for digital bit stream out (AC-3)
1 x LAN (Ethernet) connection at 10/100Mbit
1 x Wi-Fi (WLAN connection) is embedding 802.11N technology *(optional)*

16 Contacts

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